

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center - WO66-G609 Silver Spring, MD 20993-0002

June 7, 2016

DENTSPLY International Ms. Helen Lewis Director Corporate Regulatory Affairs 221 West Philadelphia Street, Suite 60W York, Pennsylvania 17401

Re: K160232

Trade/Device Name: Disposable Barrier Sleeves and Covers Regulation Number: 21 CFR 878.4370 Regulation Name: Surgical Drape and Drape Accessories Regulatory Class: II Product Code: PEM Dated: May 6, 2016 Received: May 9, 2016

Dear Ms. Lewis:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in

the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

<u>http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm</u> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Susan Runne DDS, MA

Erin I. Keith, M.S. Director Division of Anesthesiology, General Hospital, Respiratory, Infection Control, and Dental Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number *(if known)* K160232

Device Name Disposable Barriers Sleeves and Covers

Indications for Use (Describe)

Disposable Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.

See the attached table for the product names, trade names and model numbers.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

U Over-The-Counter Use (21 CFR 801 Subpart C)

PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON A SEPARATE PAGE IF NEEDED.

FOR FDA USE ONLY

Concurrence of Center for Devices and Radiological Health (CDRH) (Signature)

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff *PRAStaff@fda.hhs.gov*

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

Disposa-Shield(and equipment.	Disposa-Shield® Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.	ve as a disposable barrier for dental instruments patient use only.
Models:		
Part Number (SKU)	Description	Designed For
A88005	Disposable Barrier for Low Speed, Contra-Angle Handpiece	Low Speed, Contra-Angle Handpieces Fits Cavitron Handpiece
65090003	DISPOSA-SHIELD® No. 3 Air Turbines and Cavitron, A88005	Low Speed, Contra-Angle Handpieces Fits Cavitron Handpiece
A88006	Disposable Barrier for Low Speed, Long Handpiece	Low Speed, Long Handpieces Fits: SmartLite PS, Tulsa 6:1, ContraAngle Handpiece by Sirona, e ³ Torque Control Motor, MIDWEST Handpiece
A88007	Disposable Barrier for Universal Air/Water Syringe	Universal Air/Water Syringe (syringe type delivery system)
65090002	DISPOSA-SHIELD® No. 2 Air Motors, A88007	Universal Air/Water Syringe (syringe type delivery system)
A88008	Disposable Barrier for Light Handle (T-Bar)	Light Handle (T-Bar)
A88013	Disposable Barrier for Standard Type Delivery Systems	Syringe Type Delivery Systems Fits Delton FS+ Syringe
A880095	Disposable Barrier for Dental Hose	Dental Hose
A880105	Disposable Barrier for Universal Chair/X-Ray Head	Universal Chair / X-Ray Head
A880115	Disposable Barrier for Multi-Purpose Use	Multi-Purpose Use
65090001	DISPOSA-SHIELD® No. 1 Light Handles and Control Panels, A880115	Multi-Purpose Use
A88014	Disposable Barrier for Tray Size 10 1/2" x 14 1/2"	Tray Size 10-1/2" x 14-1/2"
A88015	Disposable Barrier for Tray Size 12" x 17"	Tray Size 12" x 17"
A88016	Disposable Barrier for Dental Chair Head Rest	Dental Chair Head Rest
65090004	DISPOSA-SHIELD® No. 4 Headrest Cover, A88016	Dental Chair Head Rest
A88018	Disposable Barrier for Midwest RDH Freedom Inner Module	Midwest RDH Freedom Inner Module
A88019	Disposable Barrier for Midwest RDH Freedom with SmartMode Technology Inner Module	Midwest RDH Freedom Cordless Prophy System with SmartMode Technology

Part Number	Description	Designed For
737007	Disposable Barrier for Standard Type Delivery Systems, Trial Pack for A88013	Syringe Type Delivery Systems Fits Delton FS+ Syringe
90736	Disposable Barrier for Midwest RDH Freedom Inner Module, Trial Pack for A88018	Midwest RDH Freedom Inner Module
978079	Bebop Barrier Sleeve	Impression Material Dispenser
RINN® Barrier equipment. This Models:	RINN® Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Models:	posable barrier for dental instruments and ent use only.
Part Number (SKU)	Description	Designed For
050500	Universal Digital Sensor Covers (Bulk)	RINN® Digital Sensor Covers, Size 1 and Size 2
550500	Universal Digital Sensor Covers	RINN® Digital Sensor Covers, Size 1 and Size 2
550200	Large Sensor Cover (Soft Overbag Cover)	RINN® Large Digital Sensors Sized to overbag sensor and sensor holder (such as Snap-A-Ray DS)
550143	Tight Digital Sensor Cover – Size 1.5/2, 300-pack	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700
055574	Tight Digital Sensor Cover – Size 1.5/2, 25-pack	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700
055629	Tight Digital Sensor Cover - Size 1.5/ 2	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700
550149	Tight Sensor Cover – Size 1, 300-pack	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex

Part Number (SKU)	Description	Designed For
055575	Tight Digital Sensor Cover - Size 1, 25-pack	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex
055630	Tight Sensor Covers – Size 1	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex
Sani-Shield® and Sar instruments and equif Models: 120126, 130 air/water syringe tips.	Sani-Shield® and Sani-Tip® Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Models: 120126, 130010 and 1300105 Disposable Barrier for Air/Water Syringes air designed for Sani-Tip air/water syringe tips.	nded to serve as a disposable barrier for dental ed for single patient use only. r/Water Syringes air designed for Sani-Tip
Smartlite® May and equipment. Model	Smartlite® Max Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Model	e as a disposable barrier for dental instruments patient use only.
644060 SmartL 644.50.030 Sm	644.50.030 SmartLite® Max Disposable Barrier Sleeves is designed for SmartLite® Max L.E.D Curing Light. 644.50.030 SmartLite Focus Sleeve Refill is designed for Caulk K-156 SL Focus, SL PS.	for SmartLite® Max L.E.D Curing Light. K-156 SL Focus, SL PS.
Endo® Barrier Sle equipment. This do Model: EAPB100 Handpiece/Driver.	Endo® Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Model: EAPB100 (EAS100) EndoActivator Protective Barrier is designed for EAD100 EndoActivator Handpiece/Driver.	posable barrier for dental instruments and ent use only. s designed for EAD100 EndoActivator
digit® power Barrier and equipment. This o Model: 678079 digit Managing Impression	digit® power Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Model: 678079 digit® power Disposable Barrier Sleeves Refill is designed for Aquasil Ultra cordless Tissue Managing Impression System and Fits digit® power Dispenser.	Sleeves and Covers are intended to serve as a disposable barrier for dental instruments device is non-sterile and intended for single patient use only. (8) power Disposable Barrier Sleeves Refill is designed for Aquasil Ultra cordless Tissue System and Fits digit(8) power Dispenser.

Dentsply Sirona 221 West Philadelphia Street Suite 60 York, PA 17404



SECTION 5. 510(k) SUMMARY for Disposable Barrier Sleeves and Covers

1. <u>Submitter Information</u>:

Dentsply Sirona 221 West Philadelphia Street Suite 60 York, PA 17404

Contact Person:	Helen Lewis
Telephone Number:	717-487-1332
Fax Number:	717-849-4343

Date Prepared: 29 January 2016

2. <u>Device Name</u>:

• Proprietary Name: Disposable Barrier Sleeves and Covers

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- Classification Name: Dental Barriers and Sleeves
- CFR Number: 878.4370
- Device Class:
- Product Code: PEM

3. <u>Predicate Device:</u>

Predicate Device Name	510 (k)	Company Name
TIDIShield [™] Curing	K132953	TIDI Products, LLC
Light Sleeve		

4. <u>Description of Device:</u>

The proposed devices, Disposable Barrier Sleeves and Covers, are made of polyethylene film and are used as accessories to dental instruments and equipment used during dental procedures. These disposable barrier sleeves and covers are offered in various shapes and sizes to fit over and cover the intended dental instruments and equipment. The Disposable Barrier Sleeves slip over the ends of the respective devices, allowing for the attachment and/or protrusion (where applicable) of those parts of the devices used during dental procedures. The Disposable Barrier Cover is placed over equipment, such as dental chair head rests and trays, to cover those parts.

The proposed devices, Disposable Barrier Sleeves and Covers, act as a physical barrier, augmenting existing infection control techniques, and facilitate clean-up.

5. <u>Indications for Use:</u>

Disposable Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.

See the attached table for the product names, trade names and model numbers.

Disposa-Shield® Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Models:

Part Number (SKU)	Description	Designed For	
A88005	Disposable Barrier for Low Speed, Contra- Angle Handpiece	Low Speed, Contra-Angle Handpieces Fits Cavitron Handpiece	
65090003	DISPOSA-SHIELD® No. 3 Air Turbines and Cavitron, A88005	Low Speed, Contra-Angle Handpieces Fits Cavitron Handpiece	
A88006	Disposable Barrier for Low Speed, Long Handpiece	Low Speed, Long Handpieces Fits: SmartLite PS Tulsa 6:1, ContraAngle Handpiece by Sirona e ³ Torque Control Motor MIDWEST Handpiece	
A88007	Disposable Barrier for Universal Air/Water Syringe	Universal Air/Water Syringe (syringe type delivery system)	
65090002	DISPOSA-SHIELD® No. 2 Air Motors, A88007	Universal Air/Water Syringe (syringe type delivery system)	
A88008	Disposable Barrier for Light Handle (T-Bar)	Light Handle (T-Bar)	
A88013	Disposable Barrier for Standard Type Delivery Systems	Syringe Type Delivery Systems Fits Delton FS+ Syringe	
A880095	Disposable Barrier for Dental Hose	Dental Hose	
A880105	Disposable Barrier for Universal Chair/X-Ray Head	Universal Chair / X-Ray Head	
A880115	Disposable Barrier for Multi-Purpose Use	Multi-Purpose Use	
65090001	DISPOSA-SHIELD® No. 1 Light Handles and Control Panels, A880115	Multi-Purpose Use	
A88014	Disposable Barrier for Tray Size 10 ¹ / ₂ " x 14 ¹ / ₂ "	Tray Size 10-1/2" x 14-1/2"	

Part Number (SKU)	Description	Designed For	
A88015	Disposable Barrier for Tray Size 12" x 17"	Tray Size 12" x 17"	
A88016	Disposable Barrier for Dental Chair Head Rest	Dental Chair Head Rest	
65090004	DISPOSA-SHIELD® No. 4 Headrest Cover, A88016	Dental Chair Head Rest	
A88018	Disposable Barrier for Midwest RDH Freedom Inner Module	Midwest RDH Freedom Inner Module	
A88019	Disposable Barrier for Midwest RDH Freedom with SmartMode Technology Inner Module	Midwest RDH Freedom Cordless Prophy System with SmartMode Technology Inner Module	
737007	Disposable Barrier for Standard Syringe Type Delivery Systems, Trial Pack for A88013	Syringe Type Delivery Systems Fits Delton FS+ Syringe	
90736	Disposable Barrier for Midwest RDH Freedom Inner Module, Trial Pack for A88018	Midwest RDH Freedom Inner Module	
978079	Bebop Barrier Sleeve	Impression Material Dispenser	

RINN® Universal Digital Sensor Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.

Models:

Part Number (SKU)	Description	Designed For	
050500	Universal Digital Sensor Covers (Bulk)	RINN® Digital Sensor Covers, Size 1 and Size 2	
550500	Universal Digital Sensor Covers	RINN® Digital Sensor Covers, Size 1 and Size 2	
550200	Large Sensor Cover (Soft Overbag Cover)	RINN® Large Digital Sensors Sized to overbag sensor and sensor holder (such as Snap-A-Ray DS)	

Part Number (SKU)	Description	Designed For	
550143	Tight Digital Sensor Cover – Size 1.5/2, 300-pack	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700	
055574	Tight Digital Sensor Cover – Size 1.5/2, 25-pack	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700	
055629	Tight Digital Sensor Cover - Size 1.5/ 2	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700	
550149	Tight Sensor Cover – Size 1, 300-pack	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex	
055575	Tight Digital Sensor Cover - Size 1, 25-pack	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex	
055630	Tight Sensor Covers – Size 1	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex	

Sani-Shield[®] and Sani-Tip[®] Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.

Models: 120126, 130010 and 1300105 Disposable Barrier for Air/Water Syringes air designed for Sani-Tip air/water syringe tips.

Smartlite® Max Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.

Model:

644060 SmartLite® Max Disposable Barrier Sleeves is designed for SmartLite® Max L.E.D Curing Light.

644.050.030 SmartLite Focus Sleeve Refill is designed for Caulk K-156 SL Focus, SL PS.

Endo® Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.

Model: EAPB100 (EAS100) EndoActivator Protective Barrier is designed for EAD100 EndoActivator Handpiece/Driver.

digit® power Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.

Model: 678079 digit® power Disposable Barrier Sleeves Refill is designed for Aquasil Ultra cordless Tissue Managing Impression System and Fits digit® power Dispenser.

6. <u>Substantial Equivalence:</u>

Table 5.2 Technological Characteristics

El 4	December 1 D 1	Developed D
<u>Element</u>	<u>Proposed Device</u>	Predicate Device
	Disposable Barrier Sleeves and Covers	TIDIShield [™] Curing
		Light Sleeve (K132953)
<u>510(k)</u>	To be assigned	<u>K132953</u>
Indications for Use	Disposable Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. See the attached table for the product names, trade names and model numbers.	TIDIShield [™] Curing Light Sleeves are indicated for use as a barrier that is used as an accessory to dental instrument. These sleeves are non-sterile and are intended for single patient only.

<u>Element</u>	Proposed Device Disposable Barrier Sleeves and Covers			Predicate Device TIDIShield [™] Curing Light Sleeve (K132953)
	Disposa-Sh barrier for c for single p Models:			
	Part Number (SKU)	Description	Designed For	
	A88005	Disposable Barrier for Low Speed, Contra- Angle Handpiece	Low Speed, Contra-Angle Handpieces Fits Cavitron Handpiece	
	65090003	DISPOSA-SHIELD® No. 3 Air Turbines and Cavitron, A88005	Low Speed, Contra-Angle Handpieces Fits Cavitron Handpiece	
	A88006	Disposable Barrier for Low Speed, Long Handpiece	Low Speed, Long Handpieces Fits: SmartLite PS,Tulsa 6:1, ContraAngle Handpiece by Sirona, e ³ Torque Control Motor, MIDWEST Handpiece	
	A88007	Disposable Barrier for Universal Air/Water Syringe	Universal Air/Water Syringe (syringe type delivery system)	
	65090002	DISPOSA-SHIELD® No. 2 Air Motors, A88007	Universal Air/Water Syringe (syringe type delivery system)	
	A88008	Disposable Barrier for Light Handle (T- Bar)	Light Handle (T-Bar)	
	A88013	Disposable Barrier for Standard Type Delivery Systems	Syringe Type Delivery Systems Fits Delton FS+ Syringe	
	A880095	Disposable Barrier for Dental Hose	Dental Hose	
	A880105	Disposable Barrier for Universal Chair/X- Ray Head	Universal Chair / X-Ray Head	
	A880115	Disposable Barrier for Multi-Purpose Use	Multi-Purpose Use	
	65090001	DISPOSA-SHIELD® No. 1 Light Handles and Control Panels, A880115	Multi-Purpose Use	

<u>Element</u>	Proposed Device Disposable Barrier Sleeves and Covers			Predicate Device TIDIShield [™] Curing Light Sleeve (K132953)
	Part Number (SKU)	Description	Designed For	
	A88014	Disposable Barrier for Tray Size 10 ¹ / ₂ " x 14 ¹ / ₂ "	Tray Size 10-1/2" x 14-1/2"	
	A88015	Disposable Barrier for Tray Size 12" x 17"	Tray Size 12" x 17"	
	A88016	Disposable Barrier for Dental Chair Head Rest	Dental Chair Head Rest	
	65090004	DISPOSA-SHIELD® No. 4 Headrest Cover, A88016	Dental Chair Head Rest	
	A88018	Disposable Barrier for Midwest RDH Freedom Inner Module	Midwest RDH Freedom Inner Module	
	A88019	Disposable Barrier for Midwest RDH Freedom with SmartMode Technology Inner Module	Midwest RDH Freedom Cordless Prophy System with SmartMode Technology	
	737007	Disposable Barrier for Standard Type Delivery Systems, Trial Pack for A88013	Syringe Type Delivery Systems Fits Delton FS+ Syringe	
	90736	Disposable Barrier for Midwest RDH Freedom Inner Module, Trial Pack for A88018	Midwest RDH Freedom Inner Module	
	978079	Bebop Barrier Sleeve	Impression Material Dispenser	
		rrier Sleeves and Covers are intended t uments and equipment. This device is r only.	-	

Element	Proposed Device Disposable Barrier Sleeves and Covers			Predicate Device
				TIDIShield [™] Curing
				Light Sleeve (K132953)
	Models:			
	Part Number (SKU)	Description	Designed For	
	050500	Universal Digital Sensor Covers (Bulk)	RINN® Digital Sensor Covers, Size 1 and Size 2	
	550500	Universal Digital Sensor Covers	RINN® Digital Sensor Covers, Size 1 and Size 2	
	550200	Large Sensor Cover (Soft Overbag Cover)	RINN® Large Digital Sensors Sized to overbag sensor and sensor holder (such as Snap-A-Ray DS)	
	550143	Tight Digital Sensor Cover – Size 1.5/2, 300-pack	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700	
	055574	Tight Digital Sensor Cover – Size 1.5/2, 25-pack	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700	
	055629	Tight Digital Sensor Cover - Size 1.5/ 2	Digital Sensors, size 1.5/2 Fits the following size 1.5 and 2 sensors: Schick CDR, Schick 33, Dexis, Kodak 6100, Gendex eHd, Gendex GXS-700	
	550149	Tight Sensor Cover – Size 1, 300-pack	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex	
	055575	Tight Digital Sensor Cover - Size 1, 25-pack	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex	
	055630	Tight Sensor Covers – Size 1	Digital Sensors, size 1 Fits the following size 1 sensors: Planmeca, Instrumentarium, Schick, Gendex, Kodak, Dentex	

Element	Proposed Device	Predicate Device
	Disposable Barrier Sleeves and Covers	TIDIShield [™] Curing
		Light Sleeve (K132953)
	Sani-Shield® and Sani-Tip® Barrier Sleeves and Covers are intended to serve as a	
	disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.	
	Models: 120126, 130010 and 1300105 Disposable Barrier for Air/Water Syringes air designed for Sani-Tip air/water syringe tips.	
	Smartlite® Max Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Model:	
	644060 SmartLite® Max Disposable Barrier Sleeves is designed for SmartLite® Max L.E.D Curing Light.	
	644.50.030 SmartLite Focus Sleeve Refill is designed for Caulk K-156 SL Focus, SL PS.	
	Endo® Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only.	
	Model: EAPB100 (EAS100) EndoActivator Protective Barrier is designed for EAD100 EndoActivator Handpiece/Driver.	
	digit® power Barrier Sleeves and Covers are intended to serve as a disposable barrier for dental instruments and equipment. This device is non-sterile and intended for single patient use only. Model: 678079 digit® power Disposable Barrier Sleeves Refill is designed for Aquasil Ultra cordless Tissue Managing Impression System and Fits digit® power Dispenser.	

Element	Proposed Device	Predicate Device
	Disposable Barrier Sleeves and Covers	TIDIShield™ Curing Light Sleeve (K132953)
Material	Polyethylene film	Polyethylene film
Material Composition	Supplier #1 (PacDent): low density polyethylene and linear low density polyethylene film Supplier #2 (MiniTube AB): low density polyethylene film	Ethylene methyl acrylate copolymer and low density polyethylene film
Biocompatibility	Supplier #1 (PacDent): Non-cytotoxic Non-sensitizing Non-irritating	Non-cytotoxic Non-sensitizing Non-irritating
	Supplier #2 (MiniTube AB): Non-cytotoxic Non-sensitizing Non-irritating	
Performance Properties	Synthetic Blood Penetration- Pass Synthetic Blood Penetration at seams and non-continuous components-Pass Viral Penetration- Pass Viral Penetration at seams and non-continuous components-Pass	Synthetic Blood Penetration- Pass Viral Penetration-Pass
Mechanical Properties	Tensile Strength • 0.02mm-Acceptable • 0.03mm-Acceptable • 0.05mm-Comparable to predicate Puncture Resistance • 0.02mm-Acceptable • 0.02mm-Acceptable • 0.03mm-Acceptable • 0.03mm-Acceptable • 0.02mm-Acceptable • 0.05mm-Comparable to predicate Tear Resistance • 0.02mm-Acceptable • 0.05mm-Comparable to predicate Tear Resistance • 0.02mm-Acceptable • 0.03mm-Acceptable • 0.03mm-Acceptable • 0.05mm-Comparable to predicate	Tensile Strength • 0.05mm- Acceptable Puncture Resistance • 0.05mm- Acceptable Tear Resistance • 0.05mm- Acceptable

<u>Element</u>	Proposed DevicePredicate DeDisposable Barrier Sleeves and CoversTIDIShield TM (
		Light Sleeve (K132953)		
Thickness	PacDent: 0.02mm, 0.03mm, 0.05mm MiniTube AB: 0.03mm	0.05mm		
Shape	Custom design to fit the intended dental instruments and equipment they cover (Reference Table 5.3).	Custom design to fit the intended instrument.		
Dimensions	Determined by the size and shape of the dental instruments and equipment they cover (Reference Table 5.3).		Length (in)	Width (in)
		21103	10 1/8"	2 3/16"
		21102	10 1/8"	2 1/4"
		21101	10 1/8"	2 1⁄2"
		21100	10 1/8"	2 3/16"
		Difference in Dimensions is due to the difference in size of the instruments they cover.		
Color	Clear, except for RINN Tight Cover barrier sleeves	Clear		
	RINN Tight Cover barrier sleeves are clear with white tabs and blue tabs. Part numbers 550143, 055574, 055629, 550149, 05575, and 055630.			
Sterile	Not sterile	Not sterile		
Single Use	Single use device	Single use device		

	Overall Dimensions (by Inches and Millimeters)	
Part Number	Device Description	Size
A88005	Disposable Barrier for Low Speed, Contra-Angle Handpiece	4.91 in. x 8.90 in.
65090003	DISPOSA-SHIELD® No. 3 Air Turbines and Cavitron, A88005	4.91 in. x 8.90 in.
A88006	Disposable Barrier for Low Speed, Long Handpiece	1.56 in. x 7.60 in.
A88007	Disposable Barrier for Universal Air/Water Syringe	2.30 in. x 5.63 in.
65090002	DISPOSA-SHIELD® No. 2 Air Motors, A88007	2.30 in. x 5.63 in.
A88008	Disposable Barrier for Light Handle (T-Bar)	2.94 in. x 6.81 in.
A88013	Disposable Barrier for Standard Type Delivery Systems	1.37 in. x 7.60 in.
A880095	Disposable Barrier for Dental Hose	2.1 in. x 24.0 in.
A880105	Disposable Barrier for Universal Chair/X-Ray Head	15 in. x 27.25 in.
A880115	Disposable Barrier for Multi-Purpose Use	4 in. x 6 in.
65090001	DISPOSA-SHIELD® No. 1 Light Handles and Control Panels, A880115	4 in. x 6 in.
A88014	Disposable Barrier for Tray Size 10 ¹ / ₂ " x 14 ¹ / ₂ "	10.5 in. 14.5 in.
A88015	Disposable Barrier for Tray Size 12" x 17"	12 in. x 17 in.
A88016	Disposable Barrier for Dental Chair Head Rest	13 in. x 13 in.
65090004	DISPOSA-SHIELD® No. 4 Headrest Cover, A88016	13 in. x 13 in.
A88018	Disposable Barrier for Midwest RDH Freedom Inner Module	59 mm x 178 mm
A88019	Disposable Barrier for Midwest RDH Freedom with SmartMode Technology Inner Module	56.6 mm x 178
737007	Disposable Barrier for Standard Type Delivery Systems, Trial Pack for A88013	1.37 in. x 7.60 in.
90736	Disposable Barrier for Midwest RDH Freedom Inner Module, Trial Pack for A88018	59 mm x 178 mm
978079	Bebop Barrier Sleeve	2.5 in x 8.016 in.
050500	Universal Digital Sensor Covers – Bulk Pack	1.574 in. x 7.00 in.
550500	Universal Digital Sensor Covers	1.574 in. x 7.00 in.
550200	Large Sensor Cover (Soft Overbag Cover)	4.02 in. x 9.4 in.
550143	Tight Digital Sensor Cover –Size 1.5/2, 300-pack	8.881 in. x 1.772 in
055574	Tight Digital Sensor Cover –Size 1.5/2, 25-pack	8.881 in. x 1.772 in
055629	Tight Digital Sensor Cover -Size 1.5/ 2	8.881 in. x 1.772 in
550149	Tight Sensor Cover –Size 1, 300-pack	8.881 in. x 1.713 in

Table 5.3 Overall Dimensions (by Inches and Millimeters)

Part Number	Device Description	Size
055575	Tight Sensor Cover - Size 1, 25-pack	8.881 in. x 1.713 in
055630	Tight Sensor Cover –Size 1	8.881 in. x 1.713 in
120126	Sani-Shield® Disposable Barrier for Air/Water Syringe –Single Packs of 250	2.25 in. x 8.50 in.
130010	Sani-Shield® Disposable Barrier for Air/Water Syringe – 40 Single Packs of 250	2.25 in. x 8.50 in.
1300105	Sani-Shield® Disposable Barrier for Air/Water Syringe –Single Packs of 250	2.25 in. x 8.50 in.
644060	SmartLite® Max Disposable Barrier Sleeves	2.125 in. x 10.813 in.
644.50.030	SmartLite Focus Sleeve Refill	11 in. x 1.75 in.
EAPB100	Endo Activator Protective Barrier	
678079	digit® power Disposable Barrier Sleeves Refill	2.189 in. x 8.5 in.

7. <u>Non-Clinical Performance Data</u>

Test	Standard	Proposed Devices Disposable Barrier Sleeves and Covers	Predicate Device TIDIShield [™] Curing Light Sleeve (K132953)
Biocompatibility Test	ing:		
In-Vitro Cytotoxicity	ANSI/AAMI/ISO 10993-5	Pass	Pass
Sensitization	ISO 10993-10	Pass	Pass
Irritation	ISO 10993-10	Pass	Pass
Performance Testing:			
Synthetic Blood Penetration	ASTM F1670/F1670M	Pass	Pass
Synthetic Blood Penetration at seams and non-continuous components	ASTM F1670/F1670M	Pass	Pass
Viral Penetration	ASTM F1671/ F1671M	Pass	Pass
Viral Penetration at seams and non- continuous components	ASTM F1671/ F1671M	Pass	Pass

Biocompatibility testing focused on cytotoxicity, levels of skin sensitization and oral mucosa irritation of the proposed devices, Disposable Barrier Sleeves and Covers. Below is a summary of the testing performed:

- ANSI AAMI ISO 10993-5 Biological Evaluation of Medical Devices-Part 5: Tests for In Vitro Cytotoxicity
- ISO 10993-10 Biological Evaluation of Medical Devices-Part 10: Tests for Irritation and Skin Sensitization

The performance of the proposed devices, Disposable Barrier Sleeves and Covers, met the requirements of the biocompatibility testing conducted to support substantial equivalence with the predicate, TIDIShieldTM Curing Light Sleeve (K132953).

The performance testing (Bench) of the proposed devices, Disposable Barrier Sleeves and Covers, met the requirements of the non-clinical bench testing conducted to support substantial equivalence with the predicate, TIDIShield[™] Curing Light Sleeve (K132953). Below is a summary of the testing performed:

- ASTM F1670/F1670M Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood
- ASTM F1671/ F1671M Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System

Mechanical Property	Standard	Proposed Devices Disposable Barrier Sleeves and Covers	Predicate Device TIDIShield [™] Curing Light Sleeve (K132953)
Tensile Strength	ASTM D882	0.02mm Acceptable 0.03mm Acceptable 0.05mm Comparable to Predicate	Acceptable for 0.05mm
Puncture Resistance	ASTM F1342/ F1342M	0.02mm Acceptable 0.03mm Acceptable 0.05mm Comparable to Predicate	Acceptable for 0.05mm
Tear Resistance	ASTM D1004	0.02mm Acceptable 0.03mm Acceptable 0.05mm Comparable to Predicate	Acceptable for 0.05mm

The range of mechanical properties for the samples is reported for the proposed devices, Disposable Barrier Sleeves and Covers. Below is a summary of the testing performed:

- ASTM D882 Standard Test Methods for Tensile Properties of Thin Plastic Sheeting
- ASTM F1342/ F1342M Standard Test Method for Protective Clothing Material Resistance to Puncture
- ASTM D1004 Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting

The range of mechanical properties for the samples of the proposed devices, Disposable Barrier Sleeves and Covers, are comparable to those reported for the predicate device, TIDIShieldTM Curing Light Sleeve (K132953), and support substantial equivalence with the predicate device, TIDIShieldTM Curing Light Sleeve (K132953).

Clinical Performance Data.

No data from human clinical studies have been included to support the substantial equivalence of the proposed devices, Disposable Barrier Sleeves and Covers, as clinical studies are not required for this medical device.

8. Conclusion Regarding Substantial Equivalence

The proposed devices, Disposable Barrier Sleeves and Covers, are dental barrier sleeves and covers which are intended to serve as a disposable barrier for dental instruments and equipment. These disposable barrier sleeves and covers are non-sterile and are intended for single patient use only. The proposed devices, Disposable Barrier Sleeves and Covers, have the same intended use and indications for use and incorporate the same fundamental technology, as the predicate device, TIDIShieldTM Curing Light Sleeve, cleared under premarket notification K132953. Test data to verify the performance of the proposed devices, Disposable Barrier Sleeves and Covers, have been provided including cytotoxicity, skin sensitization, oral mucosa irritation, synthetic blood penetration, synthetic blood penetration at seams and non-continuous components, viral penetration and viral penetration at seams and non-continuous components. The range of mechanical properties has been provided for puncture resistance, tear resistance, and tensile strength. The results of this testing, combined with the design, intended use and mechanical property comparison with the predicate device, support substantial equivalence with the predicate device, TIDIShieldTM Curing Light Sleeve (K132953).