

**DISPLAY CASE GUIDELINES FOR THE TEMPORARY EXHIBITION OF LOANS  
FROM THE METROPOLITAN MUSEUM OF ART**

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Maintained by the Metropolitan Museum of Art, Department of Scientific Research,  
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- This document contains lists of materials approved for use as components of the **interior** art display environment of a display case.
- Materials not listed here but desired for use require pre-approval from The Met’s conservation and science teams at least 3 months in advance of shipment. Please communicate with your Met Registrar contact, or email.
- The Met requires that annotated case drawings be sent to your Met Registrar contact to ensure that the casework and environmental requirements are followed.

This document covers five topics related to displaying art within the interior case environment of a display case:

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## **I. MATERIALS NOT PERMITTED FOR USE IN THE INTERIOR CASE ENVIRONMENT**

- **Wood or wood-based products**, such as medium density overlay (MDO), Medex<sup>®</sup>, masonite, plywood, medium density fiberboard (MDF), particle board, pressboard, or chip board.
  - *If the use of these materials is unavoidable, contact The Met immediately.*
- All polyvinyl chloride (PVC) boards including Celtec<sup>®</sup>, Sintra<sup>®</sup>, Forex<sup>®</sup>, or Komatex<sup>®</sup>
- Wool, silk, leather, canvas, or jute
- Rubber-based adhesives
- Oil-based paints
- Acetoxy-cured silicone caulks

## II. MATERIALS PERMITTED FOR USE WITHIN THE INTERIOR CASE ENVIRONMENT

### BONNETS, BACK PANELS, DECKS, BACKING BOARDS, BLOCKS, AND LABEL SUPPORTS

- See Table 1 in the Appendix for a list of Oddy tested<sup>1</sup> materials approved for use by The Met.

### FABRICS

- It is necessary to Oddy test any fabric desired for use within the interior case environment as different colors from the same fabric line may test differently.
- The Met's preferred fabric is Designtex Gamut.
- Creation Baumann brand cotton fabrics must be "pre-washed with detergent" by Creation Baumann before purchase (chemicals found in unwashed fabrics can lead to failure of the Oddy test).
- Flame retardant fabrics may not come in direct contact with art.
- See Tables 2a and 2b in the Appendix for a list of fabrics approved for use in exhibitions by The Met.

### ADHESIVES

- See Tables 3a and 3b in the Appendix for a list of adhesives approved for use by The Met.

### PAINTS AND STAINS

- Allow all coatings and paint to dry for at least *three weeks* prior to enclosing the interior casework.
- See Table 4 in the Appendix for a list of paints and stains approved for use by The Met.

### GASKETS

- See Table 5 in the Appendix for a list of gaskets approved for use by The Met.

### CAULKS

- See Table 6 in the Appendix for a list of caulks approved for use by The Met.

### MOUNTS, MOLDED SUPPORTS, AND PADDING

- See Table 7 in the Appendix for a list of mounts, molded supports, and padding approved for use by The Met.

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<sup>1</sup> The Oddy test is a process for evaluating whether chemical gasses that flow out of materials over time could damage the art. It qualitatively identifies the presence of reactive or corrosive compounds and takes 5-6 weeks to complete.

### III. TEMPERATURE AND RELATIVE HUMIDITY REQUIREMENTS

- Temperature and relative humidity (RH) should be maintained at 70°F ± 2°F (21°C ± 1°C) and 50%RH ± 5%RH unless otherwise specified in the *Borrower's Agreement*.
- Differing environmental condition requests should be kept in mind when deciding which objects will be placed together in exhibition cases.
- Specific environmental requirements that differ from the conditions mentioned above will be defined in The Met's *Borrower's Agreement*.
- Activated charcoal may be required to remove atmospheric pollutants.
- Silica gel may be required to obtain a specific relative humidity (RH) range.
- The amount of silica gel needed in each exhibition case is calculated using a formula that integrates the volume of air within the vitrine, the air-exchange rate, temperature gradients, and variations in the RH versus that of the encroaching air.<sup>2,3</sup>
- When calculating the size of the silica gel chamber, loose granules should be spread in trays that are not more than 1.0" (2.5 cm) deep to ensure effective interaction with the internal case environment. If trays are used, a 0.5" (1.3 cm) vertical gap between trays must be maintained. Similarly, sachets or cassettes must be placed in single layers with a 0.5" (1.3 cm) gap between each layer.
- For absorbents to be effective, the air within the interior case environment must circulate freely from the viewing area to the sub-deck and around the absorbent. Sufficient air circulation can be achieved by creating a gap of not less than 3/8 in (0.95 cm) around the outer edges of the deck and its supporting structure, and by providing at least 0.5" (1.3 cm) of open space around at least five sides of the gel. Very large vitrines may require larger gaps and electric fans. The absorbent chamber must be accessible without opening the display case's art chamber, as the interior art chamber cannot be accessed without a representative from The Met present.

### IV. INTEGRATED LIGHTING

- Art is **not** allowed to be exposed to direct, indirect, or filtered daylight.
- For each loaned object, the energy and heat associated with museum lighting systems must be outside of the display case or segregated from the interior art display environment of the display case.
- Light sources must be filtered for ultraviolet (UV) radiation, and UV levels must not exceed 75 microwatts/lumen.
- While specific lighting requirements for each loaned object will be defined in the *Borrower's Agreement*, the general requirements are:
  - Paintings – 35 foot-candles (350 lux)
  - Graphics (watercolors, pastels, color or hand-colored prints, drawings) – 5 foot-candles (50 lux)
  - Photographs –
    - Cased images, salted paper, albumen, cyanotypes, platinum prints, color, or hand-colored photographs – 5 foot-candles (50 lux)
    - Well-processed black-and-white gelatin silver photographs – 8 foot-candles (80 lux)
  - Furniture – 15 foot-candles (150 lux)
  - Light sensitive materials (textiles, ivory, lacquer, furniture objects with leather, paper, plastics, stains, or dyes) – 3-5 foot-candles (30-50 lux)
- Light attics that are open across their top surface and allow the heat associated with light elements or fiber optic illuminators to dissipate away from the interior are acceptable for use.
- If illuminators are to be placed below the deck in the case work, those spaces must be provided with adequate means of air circulation (e.g., cross ventilation, chimney effects, integrated fans) for heat dissipation, as cases cannot be opened without a representative from The Met present.

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<sup>2</sup> <http://www.smallcorp.com/silica-gel-calculator/>

<sup>3</sup> <http://www.gaylord.com/resources/silica-gel-calculators>

## V. SECURITY ALARMS

- Security alarms may be required as specified in the *Borrower's Agreement*.
- If the interior case environment is pierced during alarm installation, the hole must be sealed with an approved caulk (Table 6).

## APPENDIX

The list of materials found below have been Oddy tested and are recommended for use in constructing temporary display cases. The Oddy test rating system is described here:

*Permanent (“P”)* – can be used near art for any length of time.

*Temporary (“T”)* – can be used near art for up to 6 months at a given venue

*Unsuitable (“U”)* – not acceptable for use near art

- Temporary materials require an isolating layer, such as Mylar<sup>®</sup>, to be used to prevent the material from contacting the art.
- Materials in the tables below that are highlighted in gray are used routinely by The Met and are encouraged for use.
- If Oddy testing is to be completed by the borrowing institution, the testing protocol must be sent to The Met for approval.
- The Met can recommend an approved, fee-based Oddy testing service.
- Note that using an alternate material requires significant pre-planning as the Oddy test takes four weeks to complete. Multiple rounds of testing—and hence, more time—may be required if materials are found to be unsuitable for use and alternates must be found.

- When a trademarked “®” symbol is indicated, the name brand material, rather than a similar material, is required for use. The Met has found that non-name brand versions of those materials do not necessarily perform the same.

**Table 1. BONNETS, DECKS, BACKING BOARDS, and BLOCKS**

<b>Material Class</b>	<b>Product Name or Specifications</b>	<b>Manufacturer or Supplier</b>	<b>Last Oddy Tested</b>	<b>Oddy Result</b>
<b>Metal</b>	3D printable aluminum	Shapeways	June 2018	P
	3D printable steel	Shapeways	June 2018	T
	Dibond Aluminum composite	3A Composites USA	September 2018	T
	Alucobond; unpainted silver	3A Composites GmbH	December 2017	P
	Aluminum honeycomb panel	Kerr Panel Manufacturing (KPM)	May 2018	P
<b>Glass</b>	Any structural, laminated, or safety glass			
<b>Polymer-based Materials</b>	ASTARIGLAS® GP cast acrylic sheets 100% virgin PMMA	AstariGlas	May 2018	P
	OPTIX Crystal clear, extruded PMMA	Plaskolite	May 2018	P
	Duraform® PA (3D printable nylon)	Quickparts	June 2016	P
	Ethafoam® 220 (polyethylene)	Sealed Air	January 2018	T
	Ethafoam® 900 (polyethylene)	Sealed Air	May 2018	P
	Plastazote LD15 (black)	Zotefoams	January 2020	T
	Plastazote LD18 (white)	Zotefoams	November 2019	T
	Plastazote LD29 (black)	Zotefoams	September 2019	T
	Plastazote LD70 (white or black)	Zotefoams	November 2019	T
	Obomodulan® 1200 (green)	OBO-Werke/McCausey Lumber	September 2016	P
	Obomodulan® 502 (orange)	OBO-Werke/McCausey Lumber	September 2016	P
	Obomodulan® 210 (gray)	OBO-Werke/McCausey Lumber	September 2016	P
	Obomodulan® 500 (red)	OBO-Werke/McCausey Lumber	September 2021	P
	Sikablock® M330	Sika Deutschland GmbH	October 2016	P
	Sikablock® M450	Sika Deutschland GmbH	October 2016	P
	Renshape® 440; red	Freeman Manufacturing & Supply Co.	February 2018	P
	Renshape® 460; light brown	Freeman Manufacturing & Supply Co.	October 2016	P
	Sikablock® M650	Sika Deutschland GmbH	October 2016	T
	Sikablock® M700	Sika Deutschland GmbH	October 2016	T
	Renshape® 440; red	Freeman Manufacturing & Supply Co.	October 2016	T
	Optium Museum Acrylic	Tru-View	July 2018	T
	Marine grade HDPE polymer sheet	King Starboard	July 2018	P
	Marvelseal 360® barrier film	Midsouth Packaging, Inc.	Call The Met to use	
	Marvelseal 470® barrier film	Protective Packaging Corp.	May 2019	T
	CadPak N	Cadillac Packaging Inc.	February 2019	T
<b>Cement Boards</b>	Geoboard® decorative cement board	Ameriform	June 2016	T
	Aarmoroc® structural cement board	Ameriform	June 2016	T

**Table 2a. Tested FABRICS – Natural fibers.**

<b>Material Class</b>	<b>Product Name or Specifications</b>	<b>Manufacturer or Supplier</b>	<b>Last Oddy Tested</b>	<b>Oddy Rating</b>
<b>Natural Fiber</b>	Unisono or Ultra lines of fabrics, any color - request washing <i>with</i> detergent when ordering	Creation Baumann USA Inc.	2021-2022 2022-2023	P-T T-U
	1122 muslin/theatrical gauze	Gerriets International Inc	August 2016	T
	Filled Cloth Tristan 1324 Leno Scrim - black	Gerriets International Inc	May 2019	T
	Kono cotton solid fabrics	Robert Kaufman	January 2021	T
	Satin de Coton, 17161-0, perle; or 17161-02 gris	Dominique Kieffer	October 2017	P
	Coton de vie, 17221-08, anthracite	Dominique Kieffer	October 2017	T
	Pampelonne, LC164/746, in linen (khaki)	AKA Castel	September 2017	T
	Imperial, 2750-19, beige/offwhite; OR 2750-10, terracotta	Sahco distributed by Donghia	September 2017	T
	Peluche Black, 29 - black cotton velvet	Baumann Dekor	October 2021	T
	Superba almond fabric; model SUP0000ALM	Philips Boyne	October 2017	T
	broadcloth fabric	Philips Boyne	April 2018	T
	Desized, unbleached, cotton percale sheeting, 439UXW	Test Fabrics	April 2020	T
F3168016 Loft, in Graminees	Pierre Frey	November 2017	T	

\*Unsuitable fabrics are not acceptable for use. Testing is required and results reviewed by the Met before use.

**Table 2b. Tested FABRICS - Synthetic fibers.**

<b>Material Class</b>	<b>Product Name or Specifications</b>	<b>Manufacturer or Supplier</b>	<b>Last Oddy Tested</b>	<b>Oddy Rating</b>
<b>Synthetic Fiber</b>	"Sunset"; style 5522; color 6661; "Pink ribbon"; style 5522; color 6659; "fuchsia"; style 801; color 6564; "Hot Pink"; style 5522; color	Toray; Ultrasuede® HP	February 2017	T
	Celtic Cloth; grey 100% polyester fabric	Dazian	September 2018	T
	Poly white 100% polyester fabric	Dazian	October 2018	T
	Patio 110 gray Trevira CS upholstery	Kvadrat	December 2019	T
	Revive 0224 cream 100% recycled polyester FR	Kvadrat	December 2019	T
	canvas weave, 600-28, in blanca; solution dyed acrylic	Perennials	September 2017	T
	Gamut upholstery in Cobblestone, chalk, ash, asphalt, cobblestone, cerulean, pewter, or mist	DesignTex	November 2021	P
	Brushed flannel, in Crème (3797-101) OR black (3797-804); designed by West Elm	DesignTex	January 2018	T
	Black Melting Point Knit, 100% Trevira Black CS Polyester	Dazian	May 2019	T
	Tabby (511488) 100% Trevira CS polyester fabric in anise (004)	Maharam	August 2017	T
	Collection Boussac; Noir (color); Fire retardant polyester	Pierre Frey	January 2018	T
	Sprint polyester fabric in Sepia (Color #39), walnut (#40) or plum (#18)	Decortex Firenze	January 2018	T
	black polyester felt; 11 oz;	Test Fabrics	January 2018	T
	Fosshape 600 nonwoven polyester	Wonderflex World	February 2019	T
	Flock (901892) 100% polyester felt fabric in raven (016)	Maharam	August 2017	T
<b>Blend Fiber</b>	112-B8760 linen and nylon fabric	Libeco Lagae NV	August 2016	T
	Q305 Natural 23 Sanfor Airo linen and polyamide blend	Libeco Lagae NV	August 2016	T
	Cup of Joe black	Baumann Dekor	September 2020	T

\*Fabric table to be used as a guide – All fabrics must be Oddy tested and results reviewed by the Met before use.

**Table 3a. ADHESIVES - Glues**

Material Class	Product Name or Specifications	Manufacturer or Supplier	Last Oddy Tested	Oddy Result
<b>Glues</b>	#946 Premium Contact adhesive	Johnsonite	July 2017	T
	White Gorilla Glue®	Gorilla Glue Company	March 2020	T
	Heavy Duty Construction Adhesive	Gorilla Glue Company	March 2020	T
	Scotch-weld 2-part Epoxy adhesive DP 420 off white	3M	September 2020	T
	Super 77 multipurpose spray adhesive, 2 day dry	3M	February 2020	T*
	Fastbond 30-NF spray contact adhesive	3M	September 2019	T*
	Scotch-Weld Epoxy Adhesive DP100	3M	March 2020	T
	Repositionable 75CA Spray Adhesive	3M	January 2020	T
	TS40 silane modified polymer	Merbenit	July 2018	P
	PL Premium polyurethane construction adhesive; "PL3X"	Loctite	December 2017	P
<b>Hot Melt Glues</b>	Arrow: 3M™ Hot Melt Adhesive 3748Q	3M	October 2020	T
	Digi-Key: 3M™ Hot Melt Adhesive 3797TC	3M	October 2020	T
	3M: 3M™ Hot Melt Adhesive 3779Q	3M	October 2020	T

\*Produced tarnish on silver coupons. Not recommended for use near silver collections due to recent issues with T-rated materials tarnishing silver in display cases.

**Table 3b. ADHESIVES – Pressure Sensitive Adhesives**

<b>Material Class</b>	<b>Product Name or Specifications</b>	<b>Manufacturer or Supplier</b>	<b>Last Oddy Tested</b>	<b>Oddy Result</b>
<b>Pressure Sensitive Adhesives</b>	465 acrylic tape (double coated)	3M	July 2021	T
	415 acrylic tape (double coated)	3M	November 2019	T
	9731 double sided silicone adhesive	3M	January 2019	T
	VHB 4952 Acrylic foam tape	3M	September 2021	T
	Scotch® acrylic Long Lasting Storage Packaging Tape	3M	September 2018	T
	Framer’s Tape II Clear	Specialty Tapes	September 2018	T
	431 Aluminum foil tape	3M	October 2018	T
	425 Aluminum foil tape	3M	August 2021	T
	889 preservation double sided tape	3M	October 2018	T
	Filmoplast R	Neschen	October 2020	T
	Filmoplast P90	Neschen	December 2020	T*
	51575; double-sided acrylic tape with a non-woven backing	Tesa	September 2018	T
	4965; Transparent double-sided acrylic tape	Tesa	September 2018	T
	4985; Transparent transfer acrylic tape with no backing	Tesa	September 2018	T
	4959; Translucent double-sided acrylic mounting and splicing tape	Tesa	September 2018	T
	50600 polyester silicone masking tape	Tesa	May 2019	T
	Scotch ATG Gold adhesive transfer tape 908	3M	November 2019	T
	9731 high performance tape (double coated)	3M	January 2019	T
	Gudy 870 pressure sensitive double-sided tape no liner	Neschen	September 2018	T
	Frame sealing tape in blue/gray; cat#L387-0151	Lineco (manufacturer); University Products (distributor)	November 2020	P
Gudy® 870 carrier-less double sided adhesive	Lineco	August 2017	T	
96042 silicone adhesive transfer tape with mylar core (double-sided)	3M	September 2017	T	

\*Produced tarnish on silver coupons. Not recommended for use near silver collections due to recent issues with T-rated materials tarnishing silver in display cases.

**Table 4. PAINTS AND STAINS**

<b>Material Class</b>	<b>Product Name or Specifications</b>	<b>Manufacturer or Supplier</b>	<b>Last Oddy Tested</b>	<b>Odody Result</b>
<b>Coating</b>	Baked on powder coatings for metal	Akzo Nobel	June 2021	T
	Permalac Matte	Peacock Laboratories	March 2018	T
<b>Paint</b>	Regal Select® flat or eggshell paint	Benjamin Moore	May 2017	T
	Aura® matte or eggshell paint	Benjamin Moore	July 2017	T
	Eco Spec® Interior latex flat	Benjamin Moore	July 2017	T
	Screen Goo Projection (a) CRT white primer and (b) reference white reflective coat (two components)	Goo Systems Global (manufacturer); Tri Art Manufacturing, Inc (distributor)	July 2017	T
	Opaci-coat 300 with "white pure" colorant	Industrial Control Development, Inc	March 2018	T

**Table 5. GASKETS**

Material Class	Product Name or Specification	Manufacturer or Supplier	Last Oddy Tested	Oddy Result
<b>Gasket</b>	black D profile HTV cure gasket; 9141K157	McMaster-Carr Supply Co.	April 2017	T
	clear platinum 2000 silicone tubing; 0.040 ID x 0.085 OD; 60-411-44-10 ft	McMaster-Carr Supply Co.	December 2017	T
	gray ribbed gasket; 8602	Clean Seal®, Inc.	April 2017	T
	gray SPG silicone foam with silicone PSA backing adhesive	Netherland Rubber Co.	November 2020	T
	black SIL-B silicone foam with acrylic 3M Brand PSA backing adhesive	Netherland Rubber Co.	January 2018	T
	Black, bulb seal, solid silicone gasket; methylvinylsiloxane; ~1 cm wide	Netherland Rubber Co.	October 2020	T
	black D profile gasket; 2072T14	West American Rubber Co., LLC	April 2017	P
	Viton® 75A (A-500) tube-shaped gasket, white or black	Rainbow Rubber Extrusions, Inc.	April 2019	P
	black Viton® 60 1/8" thick gasket	Rainbow Rubber Extrusions, Inc.	February 2018	P
	Black cabinet gasket material	Delta Designs	November 2017	P
	Egosilicon 460 black	EGO Dichstoffwerke GnbH & Co. Betriebs KG	February 2018	P
	Egosilicon 460 white	EGO Dichstoffwerke GnbH & Co. Betriebs KG	February 2018	P
	CRL EZ glaze soundstrip translucent silicone	CR Laurence	May 2018	T
	Expanded white silicone tubular gasket, 411/PLT	Technical Rubber	July 2021	T
	Expanded black viton-like tubular gasket, FKM17514/ESP	Technical Rubber	November 2018	T
	MF-S1 Compression Seal	Manfred Frank	November 2018	T
	Extruded Ilpea Thermoplastic Elastomer (TPE)	Ilpea	April 2019	P
	CRL clear glass joint strips 180 degree joint	CR Laurence	April 2018	T
	SIPRO black gasket	BSP Silikon - profile GmbH	May 2018	T

**Table 6. CAULKS**

Material Class	Product Name or Specifications	Manufacturer or Supplier	Last Oddy Tested	Oddy Result
<b>Caulk</b>	White Dow Corning® 739 neutral cure adhesive sealant, cured (3-day cure)	Dow Corning	September 2020	T
	Gray Dow Corning® 791 silicone weatherproofing, cured (7-14 day cure)	Dow Corning	August 2016	T
	Gray Dow Corning® 795 silicone Building Sealant, cured (7-14 day cure)	Dow Corning	June 2016	T
	White Dow Corning® 795 silicone Building Sealant, cured (7-14 day cure)	Dow Corning	March 2021	T
	Black Dow Corning® 795 silicone Building Sealant, cured (7-14 day cure)	Dow Corning	August 2016	T
	Gray 7091 neutral cure one-part silicone adhesive; 7-day cure	Dow Corning	November 2017	P
	Black 7091 neutral cure one-part silicone sealant; 7-day cure	Dow Corning	August 2021	P
	Clear 3145 RTV MIL-A-46146 Adhesive Sealant; 72-hour cure	Dow Corning	April 2020	T
	Translucent Pactan 7043 1-component silicone, cured	Tremco Illbruck	January 2017	P
	Translucent Pactan 8051 2-component silicone, cured (translucent)	Tremco Illbruck	January 2017	T
	Colorsil N in color RAL 7022 (gray)	Kawo Karl Wolpers	February 2018	T
	Egosilicon 460 Black	EGO Dichstoffwerke GmbH & Co. Betriebs KG	February 2018	P
	Egosilicon 460 white	EGO Dichstoffwerke GmbH & Co. Betriebs KG	February 2018	P
	Clear Supreme silicone (24 hr cure)	General Electric (GE)	November 2016	T

**Table 7. MOUNTS, MOLDED SUPPORTS, AND PADDING**

<b>Material Class</b>	<b>Product Name or Specifications</b>	<b>Manufacturer or Supplier</b>	<b>Last Oddy Tested</b>	<b>Oddy Result</b>
<b>Mounts, Molded Supports, Padding</b>	BPE-T50 polyethylene tubing	Solomon Scientific	August 2016	P
	24 OPSY PET white polyester needle punched plain batting	Superior Felt and Filtration	August 2016	T
	Volara AS foamed polyethylene 030AS 0098SG electron irradiation crosslinked	Sekisui Voltek	November 2016	T
	Volara 040A 125 foamed polyethylene white	Seksui Voltek	April 2018	T
	Ethafoam® 220 or 900	Sealed Air Corporation	January 2018	T
	Poron® polyurethane 4701-40 black	Rogers Corporation	November 2017	T
	Poron® polyurethane 4701-37 AquaPro™ 37; black	Rogers Corporation	November 2017	T
	0.5, 1.0 or 1.5 mm polyester felt; white, NO adhesive backing	Sutherland Felt Company	December 2017	T
	100% polyester felt padding with adhesive backing in white or tan	Benchmark Catalog	June 2017	T
	100% polyester felt padding with NO adhesive backing ("dry") in white, dark brown, cool gray, or tan	Benchmark Catalog	September 2017	T
	Sueded polyethylene with acrylic adhesive backing in crème or steel gray	Benchmark Catalog	January 2018	T
	Sueded polyethylene padding w/ NO adhesive backing ("dry") in crème,	Benchmark Catalog	September 2017	P-T
	Musetex Polyester Batting 100% White polyester fiber batting	Museum Services Corporation	August 2020	T
	Vivak Thermoplastic PTEG, Glossy	Plaskolite	October 2020	T
	Teflon Relic Wrap Packaging Film, Part	Gaylord	October 2019	T
	beige sueded polyethylene padding w/ adhesive backing	Benchmark Catalog	May 2017	T
	stiff felt with adhesive backing; PE-F-59230-48; 1/4" thick	Sutherland Felt Company	December 2018	T
	0.020" or 0.031" black silicone rubber sh	Acme rubber, Co.	August 2019	P
	Clay Adams Intramedic non-radiopaque polyethylene tubing	Clay Adams	February 2018	P
	Ultralon PE30; foamed polyethylene; White	Ultralon Foam Group	February 2018	T
	Magsheet 0.75 mm white gloss magnetic sheet	Anchor	October 2017	P
	Magsheet 0.60 mm white matte magnetic sheet	Anchor	November 2017	T
	0.125" clear silicone rubber sheeting	Acme rubber, Co.	February 2018	P
	Bisco BF-2000 in foamed silicone with PSA - in black or white	Rogers corporation	February 2018	T
	Norseal sponge silicone rubber - black	Saint Gobain	May 2019	T
	1/32" FDA clear silicone sheet, colorless	Saint Gobain Canal Rubber	May 2019 February 2019	T T
	1-inch trapezoid backer rods, closed cell polyethylene foam	Canal Rubber University Products	February 2019 May 2019	T T
	black flexible solid foam acoustic foam wedges	University Products Butera Brands	May 2019 April 2019	T T
	Stiff Felt PE-F-59 Low Melt Black poly	Butera Brands Sutherland Felt Company	April 2019 March 2019	T T