

Product Specifications

	NON-BREATHABLE CONNECTORS (Polyurethane)								
	Seeflex 020E	Seeflex 040E	Seeflex 040AS	Seeflex 060ES	Flexi & Flexi Earthed				
Material	Ether based thermoplastic polyurethane	Ether based thermoplastic polyurethane	Ether based thermoplastic polyurethane with Anti-static infusion	Ether based thermoplastic polyurethane with a polyester scrim	Ether based thermoplastic polyurethane with 316 stainless steel wire coil Flexi-Earthed option has Terminal Lugs at each end of coil (inset)				
Colour	Transparent	Transparent	Transparent	Semi-transparent	Transparent				
Hardness (Shore A)	90	90	90	90	90				
Temperature range (Continuous) (Surge)		-25 - 110°C / -13 - 230°F 120°C / 248°F	-25 - 95°C / -13 - 203°F 100°C / 212°F	-25 - 120°C / -13 - 248°F 130°C / 266°F	-20 - 85°C / -4 - 185°F				
Surface	Gloss/Gloss	Gloss/Gloss	Gloss/Gloss	Gloss/Gloss	Gloss/Gloss				
FDA Approved	CFR 177.1680 & 177.2600	CFR 177.1680 & 177.2600	CFR 177.1680 & 177.2600	CFR 177.1680 & 177.2600	CFR 177.1680 & CFR 21 177.1550 (adhesives) & 177.2600				
3A Certified	Yes (20-)	Yes (20-)	-	TBC	Yes (20-)				
EU Approved	EC 1935/2004, 2023- 2006 & 10/2011	EC 1935/2004, 2023- 2006 & 10/2011	-	EC 1935/2004, 2023- 2006 & 10/2011	EC 1935/2004, 2023- 2006				
ATEX Certified	Approved for all dust explosion hazardous areas. Some restrictions apply.	Approved for all dust explosion hazardous areas. Some restrictions apply.	Approved for all dust explosion hazardous areas. Some restrictions apply.	TBC	Approved for all dust explosion hazardous areas. Some restrictions apply.				
Thickness	0.35 mm / 1/4 inch	0.9 mm / ½2 inch	0.9 mm / 1/32 inch	1.3mm / ‰ inch	0.6 mm / ½2 inch - 0.7mm / ½2 inch (depending on diameter)				
Surface Resistivity (Ohms)	1010	1010	108	1010	NA				
Air Permeability	0	0	0	0	0				
Application	●Lightweight media specifically designed for load and weigh scale type equipment. ●No memory so will not fracture as a result of constant flexing. ●Excellent abrasion resistance.	●Used for most static, vibratory and gyratory sifters, screeners, feeders, bin dischargers, hoppers, conveyors, packing equipment. ●No memory so will not fracture as a result of constant flexing. ●Greater resistance to chemical and UV conditions as well as liquid and CIP. ●Excellent strength and abrasion resistance.	●Applications where static is a problem. ●Applications with explosion risks and for metal detection. ●No memory so will not fracture as a result of constant flexing. ●Excellent abrasion, chemical and puncture resistance.	●For over-pressure situations up to 1.3 bar (tested on a static 250mm diameter x 200mm long connector)* ●The internally bonded scrim restricts the Seeflex sleeve from stretching. *Engineering adjustments should be made for changes in diameter. For adjustments in length or non-static applications, contact BFM®.	Ideal for bag feeders, filling heads or bulk bag feeders where connector needs to remain open.				
Tensile Strength	78 MPa	40 MPa	37 MPa	47 MPa	34 MPa				
Ultimate Elongation	644%	593%	450%	382%	-				
Tear Strength - Die C (N)	17	67	51	111	NA				
100% Modulus (MPa)	8.3	8	7.5	12.5	NA				
300% Modulus (MPa)	18.4	15.6	11.7	16	NA				

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	BREATHABLE CONNECTORS & COVERS (Fabric)								
	LM3	LM4	Teflex	FM1 Breather	Kevlar Cover	Black Out Cover			
Material	100% woven polypropylene	100% woven polyester	100% woven Teflon PTFE	100% polyester multi-filament scrim supported needle felt	100% woven Kevlar (Aramid)	100% woven polypropylene			
Colour	White	White	Dark Brown	White	Yellow	Black			
Weight (± 10%)	295g/m² / 8.7oz/yd²	393g/m² / 11.6oz/yd²	678g/m² / 20oz/yd²	550g/m²/16.22oz/yd²	447g/m² / 13.2 oz/yd²	207g/m ² / 6.1oz/yd ²			
Temp. range (Continuous) (Surge)	-70 - 94°C / -94 - 201°F 107°C / 225°F	130°C / 266°F 150°C / 302°F	260°C / 500°F 280°C / 536°F	130°C / 266°F 150°C / 302°F	260°C / 500°F 300°C / 572°F (NB Limited to max. temp. of inner layer)	-70 - 95°C / -94 - 203°F 100°C / 212°F (NB Limited to max. temp. of inner layer)			
Construction/ Finish	Multi-filament twill weave, heat set	Multi-filament plain weave, calendered	Basket weave	Heat set, singed and super-glazed one side	Multi-filament plain weave, scoured & heat set	Multi-filament plain weave, calendered			
FDA Approved	CFR 21 177.1680 & 177.2600	CFR 21 177.2800	CFR 21 177.1550	CFR 21 177.2800	CFR 21 177.1632	CFR 21 177.1520			
3A Certified	-	-	-	-	(as long as inner meets 3A)	(as long as inner meets 3A)			
EU Approved	EC 1935/2004 & 10/2011	EC 1935/2004 & 10/2011	-	-	(as long as inner meets 3A)	(as long as inner meets 3A)			
ATEX Certified	-	Approved for all dust explosion hazardous areas. Some restrictions apply.	-	-	-	-			
Surface Resistivity (Ohms)	10 ⁸	10 ⁹	Insulative	10 ⁸	NA	NA			
Air Permeability (NB: 125Pa = 0.5" water gauge)	13 (cm³/cm²/sec@125Pa) 25 (ft³/ft²/min@0.5" wg)	0.4 (cm³/cm²/sec@125Pa) 0.8 (ft³/ft²/min@0.5" wg)	0.3 (cm³/cm²/sec@125Pa) 0.5 (ft³/ft²/min@0.5" wg)	17 (cm³/cm²/sec@125Pa) 33 (ft³/ft²/min@0.5" wg)	(Depends on inner layer)	(Depends on inner layer)			
Application	●Used for lower temperature environments (temperatures down to -70°C). ●Ideal for food processing, especially when some breathability is required to alleviate pressure.	Perfect when some breathability is required to alleviate pressure. Used for higher temperature environments (temperatures up to 130°C).	•For extreme temperatures and highly resistant also against alkalis / acidic / caustic products.	●Designed for breathing applications such as venting hoppers and other contained vessels. ●May become required as BFM® connectors create a 100% sealed system.	●Used in over pressure and potentially explosive applications. ●Can be used with food processing. ●Designed to fit over existing connectors and uses simple butterfly mechanism (no tools required).	●Used for light sensitive areas and processes - cuts out all light. ●Designed to fit over existing BFM® connectors and uses simple butterfly mechanisms (no tools required).			
Tensile Strength	-	ASTM 5034 (kg) Warp 522 Weft 745	ASTM 5034 (kg) Warp 90 Filling 100	Bursting strength (kg) 45.7+	ASTM 5034 (kg) Warp 700 Filling 704 (±58kgf)	-			

NOTE: All information in this document is based on our present knowledge and experience at the time of printing. Due to the multitude of factors influencing the suitability and performance of BFM® fittings, it does not exempt the user from performing their own tests, nor does it imply any legally binding assurance concerning specific properties of the BFM® fittings, or the suitability for a particular application. The responsibility of complying with any governing laws and regulations relevant to the use of BFM® fittings is the obligation of the end user.

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