

Pebax® MV 1074 SA 01 MED

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® MV 1074 SA 01 MED is a thermoplastic elastomer made of flexible and hydrophilic polyether and rigid polyamide. Hydrophilic Pebax® MV 1074 SA 01 MED is suitable for extrusion or coextrusion and offers excellent high moisture absorption properties in wet environments, enhancing lubricity against bodily tissue.

Pebax® MV 1074 SA 01 MED is also an inherently dissipative polymer and can be dry blended or compounded with a polymer matrix to lower the surface resistivity of the final part.

This grade offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices. Upon request, letters regarding USP Class VI compliance can be provided.

General Information			
Features	Machinable		
Uses	Blending		
	Compounding		
	Medical/Healthcare Applications		
	Membranes		
	Plastics Modification		
	Tubing		
Processing Method	Coextrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	48	%	
Equilibrium, 23°C, 50% RH	1.4	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	40		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	30.0	MPa	ASTM D638
Tensile Elongation (Break)	> 700	%	ASTM D638
Flexural Modulus	80.0	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	158	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+9	ohms	IEC 60093
Volume Resistivity	2.5E+9	ohms · cm	IEC 60093
Charge Decay Time	< 1.0	sec	MIL B-81705
Optical	Nominal Value		Test Method

Refractive Index	1.502	Internal Method
Injection	Nominal Value	Unit
Drying Temperature	65.0 to 75.0	°C
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	200 to 270	°C
Mold Temperature	25.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	65.0 to 75.0	°C
Drying Time	4.0 to 6.0	hr
Melt Temperature	210 to 230	°C

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