

Arkema Group Pebax® MV 1074 SP 01 Polyether Block Amide (PEBA)

Category : Polymer , Thermoplastic , Polyether Block Amide (PEBA)

Material Notes:

Polyether block amide PEBAX® MV 1074 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. MV 1074 SP 01 is an inherently dissipative polymer and can be dry blended or compounded with an isolative polymer to lower the surface resistivity. This SP grade has been developed to be heat and UV resistant. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-MV-1074-SP-01-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in³	ISO 1183
Water Absorption	48 % @Temperature 23.0 °C, Time 86400 sec	48 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.4 % @Temperature 20.0 °C	1.4 % @Temperature 68.0 °F	50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	30.0 MPa	4350 psi	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Elongation at Break	>= 700 %	>= 700 %	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Flexural Modulus	0.0800 GPa	11.6 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	158 °C	316 °F	ISO 11357

Optical Properties	Metric	English	Comments
Refractive Index	1.502	1.502	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+9 ohm-cm	2.50e+9 ohm-cm	IEC 60093
Surface Resistivity per Square	3.00e+9 ohm	3.00e+9 ohm	IEC 60093
Static Decay	<= 1.0 sec	<= 1.0 sec	MIL B-81705

Electrical Properties	Metric	English	Comments
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