

Arkema Group Pebax® MV 3000 SP 01 Polyether Block Amide (PEBA)

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

Material Notes:

Polyether block amide PEBAX® MV 3000 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This hydrophilic grade when extruded into either a thin film or laminated on to a substrate offers excellent permeability to moisture vapor while remaining waterproof and offering an excellent barrier layer to bacteria. This SP grade is specifically designed for outdoor application that needs excellent weather resistance properties. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-MV-3000-SP-01-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Water Absorption	28 % @Temperature 23.0 °C, Time 86400 sec	28 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.0 % @Temperature 20.0 °C	1.0 % @Temperature 68.0 °F	50% RH; ISO 62
Water Vapor Transmission	3100 - 4000 g/m ² /day @Thickness 0.0150 mm, Temperature 38.0 °C	200 - 258 g/100 in ² /day @Thickness 0.000591 in, Temperature 100 °F	90% RH; ASTM E96 E
	19000 - 25000 g/m ² /day @Thickness 0.0150 mm, Temperature 38.0 °C	1220 - 1610 g/100 in ² /day @Thickness 0.000591 in, Temperature 100 °F	50% RH; ASTM E96 BW

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35	35	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	35.0 MPa	5080 psi	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Elongation at Break	500 %	500 %	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Flexural Modulus	0.0450 GPa	6.53 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 178

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

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Nozzle Temperature	190 - 210 °C	374 - 410 °F	Blown Film
	240 - 250 °C	464 - 482 °F	Cast Film
	240 - 250 °C	464 - 482 °F	Coating
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	
Dry Time	4.00 - 8.00 hour	4.00 - 8.00 hour	

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