

Arkema Group Pebax® MP 1878 SP 01 Polyether Block Amide (PEBA)

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

Material Notes:

Polyether block amide PEBAX® MP 1878 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. Added to PA6 Pebax® MP 1878 enhances the properties of PA6, especially at low temperatures and low humidity content, at the same time maintaining the transparency of the nylon film and improving its soft touch. 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-MP-1878-SP-01-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in³	ISO 1183
Water Absorption	6.7 % @Temperature 23.0 °C, Time 86400 sec	6.7 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.35 % @Temperature 20.0 °C	1.35 % @Temperature 68.0 °F	50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
	54 @Time 15.0 sec	54 @Time 0.00417 hour	Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	60.0 MPa	8700 psi	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Elongation at Break	550 %	550 %	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Flexural Modulus	0.180 GPa	26.1 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	195 °C	383 °F	ISO 11357
Vicat Softening Point	169 °C @Load 1.02 kg	336 °F @Load 2.25 lb	ISO 306

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