

Arkema Group Pebax® MX 1059 Polyether Block Amide (PEBA) (Dry)

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

Material Notes:

POLYETHER BLOCK AMIDE (PEBA) Hardness 35 shore D Good resistance to oils. Applications: Automotive, cable...ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-MX-1059-Polyether-Block-Amide-PEBA-Dry.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	
Water Absorption	1.2 %	1.2 %	
Moisture Absorption at Equilibrium	0.50 %	0.50 %	Humidity Absorption
Melt Flow	9.0 g/10 min @Load 1.00 kg, Temperature 235 °C	9.0 g/10 min @Load 2.20 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35	35	
Tensile Strength, Yield	6.20 MPa @Strain 50.0 %	899 psi @Strain 50.0 %	50 mm/min
Tensile Modulus	0.0510 GPa	7.40 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	1.27 J/cm² @Temperature -30.0 °C	6.04 ft-lb/in² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	10°C/min
Glass Transition Temp, Tg	-65.0 °C	-85.0 °F	10°C/min
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 3.10 mm	English @ Thickness 0.122 in	Comments
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Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.44e+13 ohm-cm	4.44e+13 ohm-cm	
Surface Resistance	1.69e+13 ohm	1.69e+13 ohm	
Dielectric Strength	43.0 kV/mm	1090 kV/in	
Dissipation Factor	0.00051	0.00051	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.00081	0.00081	
	@Frequency 100 Hz	@Frequency 100 Hz	

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