

Arkema Group Pebax® MX 1205 Polyether Block Amide (PEBA)

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

Material Notes:

Typical application: Impact modifier Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-MX-1205-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	ASTM D792
Water Absorption	1.2 %	1.2 %	24 hr in water at 20°C; ASTM D570
Water Absorption at Saturation	0.40 %	0.40 %	20°C and 65% RH; ASTM D570
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	42	42	ASTM D2240
Tensile Strength at Break	36.0 MPa	5220 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Flexural Modulus	0.0780 GPa	11.3 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256-A
	NB	NB	ASTM D256-A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256-A
	NB	NB	ASTM D256-A
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Heat of Fusion	22.0 J/g	9.46 BTU/lb	ASTM D3417
CTE, linear	200 µm/m-°C	111 µin/in-°F	ASTM D696
	@Temperature -40.0 - 140 °C	@Temperature -40.0 - 284 °F	
Melting Point	147 °C	297 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	52.0 °C	126 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Heat Deflection Point			100.0 °C; ASTM D1525

Electrical Properties	Metric	English	Comments
Surface Resistance	3.00e+12 ohm	3.00e+12 ohm	65% RH; ASTM D257
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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