

Arkema Group Pebax® 7233 Polyether Block Amide (PEBA)

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

Material Notes:

Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-7233-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ASTM D792
Water Absorption	0.90 %	0.90 %	24 hr in water at 20°C; ASTM D570
Water Absorption at Saturation	0.70 %	0.70 %	20°C and 65% RH; ASTM D570
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ASTM D2240
Tensile Strength at Break	62.0 MPa	8990 psi	ASTM D638
Tensile Strength, Yield	34.0 MPa	4930 psi	ASTM D638
Elongation at Break	360 %	360 %	ASTM D638
Elongation at Yield	15 %	15 %	ASTM D638
Flexural Modulus	0.730 GPa	106 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256-A
	0.750 J/cm @Temperature -40.0 °C	1.41 ft-lb/in @Temperature -40.0 °F	ASTM D256-A

Thermal Properties	Metric	English	Comments
Heat of Fusion	63.0 J/g	27.1 BTU/lb	ASTM D3417
CTE, linear	120 µm/m-°C @Temperature -40.0 - 140 °C	66.7 µin/in-°F @Temperature -40.0 - 284 °F	ASTM D696
Melting Point	174 °C	345 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	106 °C	223 °F	ASTM D648
Vicat Softening Point	165 °C	329 °F	under 1 daN; ASTM D1525

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	65% RH; ASTM D257
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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