

Arkema Group Pebax® 4033 Polyether Block Amide (PEBA)

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

Material Notes:

Typical application: Mechanical parts Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-4033-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	0.50 %	0.50 %	20°C and 65% RH; ASTM D570
Melt Flow	5.0 g/10 min	5.0 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	450 %	450 %	ASTM D638
Modulus of Elasticity	0.0500 GPa	7.25 ksi	ASTM D638
Flexural Modulus	0.0840 GPa	12.2 ksi	ASTM D790
Resilience	0.625	0.625	BS 903 par: A 8
Flex Crack Resistance	2.0	2.0	[mm] 20°C / 100000 flexures; ASTM D813
	4.5	4.5	[mm] -20°C / 50000 flexures; ASTM D813
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	
Tear Strength	70.0 kN/m	399 pli	notched; ASTM D624 (C)
	95.0 kN/m	542 pli	unnotched; ASTM D624 (C)

Mechanical Properties	Metric	English	Comments
Abrasion	80	80	mm ³ ; DIN 53516
Compression Set	21 %	21 %	Load = 9.3 MPa (22 hr / 70°C); ASTM D395 Method A

Thermal Properties	Metric	English	Comments
Heat of Fusion	24.0 J/g	10.3 BTU/lb	ASTM D3417
CTE, linear	195 µm/m-°C @Temperature -40.0 - 140 °C	108 µin/in-°F @Temperature -40.0 - 284 °F	ASTM D696
Melting Point	160 °C	320 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	52.0 °C	126 °F	ASTM D648
Vicat Softening Point	132 °C	270 °F	under 1 daN; ASTM D1525

Electrical Properties	Metric	English	Comments
Surface Resistance	5.00e+12 ohm @Temperature 20.0 °C	5.00e+12 ohm @Temperature 68.0 °F	65% RH; ASTM D257

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