

Arkema Group Pebax® 3533 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-3533-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	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	8.0 g/10 min	8.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	ASTM D2240
Hardness, Shore D	33	33	ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM D638
Elongation at Break	670 %	670 %	ASTM D638
Modulus of Elasticity	0.0146 GPa	2.12 ksi	ASTM D638
Flexural Modulus	0.0250 GPa	3.63 ksi	ASTM D790
Resilience	0.70	0.70	BS 903 par: A 8
Flex Crack Resistance	2.0	2.0	[mm] 20°C / 100000 flexures; ASTM D813
	2.5	2.5	[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	45.0 kN/m	257 pli	notched; ASTM D624 (C)

Mechanical Properties	Metric	English	Comments
Taber Abrasion, mg/1000 Cycles	81	81	ASTM D1242
Abrasion	96	96	mm ³ ; DIN 53516
Compression Set	54 %	54 %	Load = 9.3 MPa (22 hr / 70°C); ASTM D395 Method A

Thermal Properties	Metric	English	Comments
Heat of Fusion	11.0 J/g	4.73 BTU/lb	ASTM D3417
CTE, linear	210 µm/m-°C @Temperature -40.0 - 140 °C	117 µin/in-°F @Temperature -40.0 - 284 °F	ASTM D696
Melting Point	143.5 °C	290.3 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ASTM D648
Vicat Softening Point	74.0 °C	165 °F	under 1 daN; ASTM D1525

Electrical Properties	Metric	English	Comments
Surface Resistance	2.00e+12 ohm @Temperature 20.0 °C	2.00e+12 ohm @Temperature 68.0 °F	65% RH; ASTM D257

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