

Arkema Group Pebax® 5533 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-5533-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	7.0 g/10 min	7.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength at Break	44.0 MPa	6380 psi	ASTM D638
Tensile Strength, Yield	12.0 MPa	1740 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Elongation at Yield	25 %	25 %	ASTM D638
Modulus of Elasticity	0.145 GPa	21.0 ksi	ASTM D638
Flexural Modulus	0.160 GPa	23.2 ksi	ASTM D790
Resilience	0.585	0.585	BS 903 par: A 8
Flex Crack Resistance	3.0	3.0	[mm] 20°C / 100000 flexures; ASTM D813
	9.0	9.0	[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	

Tensile Strength Mechanical Properties	115 kN/m Metric	656 pli English	notched; ASTM D624 (C) Comments
	135 kN/m	770 pli	unnotched; ASTM D624 (C)
Taber Abrasion, mg/1000 Cycles	65	65	ASTM D1242
Abrasion	50	50	mm³; DIN 53516
Compression Set	10 %	10 %	Load = 9.3 MPa (22 hr / 70°C); ASTM D395 Method A

Thermal Properties	Metric	English	Comments
Heat of Fusion	26.0 J/g	11.2 BTU/lb	ASTM D3417
CTE, linear	170 µm/m-°C @Temperature -40.0 - 140 °C	94.4 µin/in-°F @Temperature -40.0 - 284 °F	ASTM D696
Melting Point	159 °C	318 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	66.0 °C	151 °F	ASTM D648
Vicat Softening Point	144 °C	291 °F	under 1 daN; ASTM D1525

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

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