

Arkema Group Pebax® 6333 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-6333-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hr in water at 20°C; ASTM D570
Water Absorption at Saturation	0.60 %	0.60 %	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	63	63	ASTM D2240
Tensile Strength at Break	55.0 MPa	7980 psi	ASTM D638
Tensile Strength, Yield	17.0 MPa	2470 psi	ASTM D638
Elongation at Break	440 %	440 %	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Modulus of Elasticity	0.260 GPa	37.7 ksi	ASTM D638
Flexural Modulus	0.290 GPa	42.1 ksi	ASTM D790
Resilience	0.56	0.56	BS 903 par: A 8
Flex Crack Resistance	5.0	5.0	[mm] 20°C / 100000 flexures; ASTM D813
	14	14	[mm] -20°C / 50000 flexures; ASTM D813
Izod Impact, Notched	NB	NB	ASTM D256-A
	1.00 J/cm	1.87 ft-lb/in	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	

Mechanical Properties	150 kN/m Metric	855 pli English	Comments
	168 kN/m	959 pli	unnotched; ASTM D624 (C)
Taber Abrasion, mg/1000 Cycles	46	46	ASTM D1242
Abrasion	34	34	mm³; DIN 53516
Compression Set	5.0 %	5.0 %	Load = 9.3 MPa (22 hr / 70°C); ASTM D395 Method A

Thermal Properties	Metric	English	Comments
Heat of Fusion	33.0 J/g	14.2 BTU/lb	ASTM D3417
CTE, linear	140 µm/m-°C @Temperature -40.0 - 140 °C	77.8 µin/in-°F @Temperature -40.0 - 284 °F	ASTM D696
Melting Point	169 °C	336 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	ASTM D648
Vicat Softening Point	161 °C	322 °F	under 1 daN; ASTM D1525

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm @Temperature 20.0 °C	1.00e+13 ohm @Temperature 68.0 °F	65% RH; ASTM D257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China