

Arkema Group Pebax® 6333 SN 01 Polyether Block Amide (PEBA) (Conditioned)

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

Material Notes:

POLYETHER BLOCK AMIDE (PEBA) hardness 63 shore D Non plasticized flexible Polyamide Outstanding mechanical properties at low temperature (-40°C) Applications: Sport (Football shoe sole, ski top layer...) Industrial (conveyor belts, transmission belts, electric coils...)ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-6333-SN-01-Polyether-Block-Amide-PEBA-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	
Melt Flow	8.0 g/10 min @Load 1.00 kg, Temperature 235 °C	8.0 g/10 min @Load 2.20 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	
Tensile Strength, Yield	17.0 MPa	2470 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	26 %	26 %	50 mm/min
Tensile Modulus	0.276 GPa	40.0 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	1.24 J/cm² @Temperature -30.0 °C	5.90 ft-lb/in² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	
Melting Point	169 °C	336 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	161 °C	320 °F	50 L/M, SUN
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	20.2 %	20.2 %	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	

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