

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

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	
Water Absorption	1.1 %	1.1 %	
Moisture Absorption at Equilibrium	0.60 %	0.60 %	Humidity Absorption
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	19.0 MPa	2760 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	25 %	25 %	50 mm/min
Tensile Modulus	0.307 GPa	44.5 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.700 J/cm² @Temperature -30.0 °C	3.33 ft-lb/in² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	169 °C	336 °F	10°C/min
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
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
Electrical Resistivity	9.33e+13 ohm-cm	9.33e+13 ohm-cm	
Surface Resistance	2.67e+13 ohm	2.67e+13 ohm	
Dielectric Strength	42.5 kV/mm	1080 kV/in	
Dissipation Factor	0.00039	0.00039	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.000883	0.000883	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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