

Arkema Group Pebax® 4033 SN 01 Polyether Block Amide (PEBA) (Conditioned)

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

Material Notes:

POLYETHER BLOCK AMIDE (PEBA) hardness 40 shore D Non plasticized flexible Polyamide Outstanding mechanical properties at low temperature (-40°C) Applications: molded parts for sport goods (softness, nice touch feeling) Industrial (conveyor belts, acoustic seals, damping parts) ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-4033-SN-01-Polyether-Block-Amide-PEBA-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Melt Flow	9.0 g/10 min @Load 1.00 kg, Temperature 235 °C	9.0 g/10 min @Load 2.20 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	
Tensile Strength, Yield	7.80 MPa @Strain 50.0 %	1130 psi @Strain 50.0 %	50 mm/min
Tensile Modulus	0.0640 GPa	9.28 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	NB	NB	Low Temp

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	195 µm/m-°C @Temperature 20.0 °C	108 µin/in-°F @Temperature 68.0 °F	
Melting Point	160 °C	320 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	52.0 °C	126 °F	
Vicat Softening Point	132 °C	270 °F	50°C/hr; 50N
	HB	HB	

Flammability, UL 94			
Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.
Electrical Properties	Metric	English	Comments
Surface Resistance	3.00e+12 ohm	3.00e+12 ohm	

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