

Arkema Group Pebax® Clear 300 Polyether Block Amide (PEBA)

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

Material Notes:

Pebax® Clear 300 combines high transparency level with the unique performance of Pebax®, thermoplastic elastomer made of flexible polyether and rigid polyamide. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-Clear-300-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in³	ISO 1183
Water Absorption	1.6 % @Temperature 23.0 °C, Time 86400 sec	1.6 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	0.70 % @Temperature 20.0 °C	0.70 % @Temperature 68.0 °F	50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
	53 @Time 15.0 sec	53 @Time 0.00417 hour	Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	49.0 MPa	7110 psi	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Elongation at Break	>= 350 %	>= 350 %	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Flexural Modulus	0.212 GPa	30.7 ksi	Conditioned 15 days at 23°C - 50% RH; ISO178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	ISO 11357
Vicat Softening Point	119 °C @Load 1.02 kg	246 °F @Load 2.25 lb	ISO 306

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Processing Properties	Metric	English	Comments
Nozzle Temperature	240 °C	464 °F	Recommended
	210 - 270 °C	410 - 518 °F	
Mold Temperature	<= 30.0 °C	<= 86.0 °F	Surface: Mirror polish to get the optimum transparency
Drying Temperature	60.0 °C	140 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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