

Arkema Group Pebax® Clear 400 Polyether Block Amide (PEBA)

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

Material Notes:

Pebax® Clear 400 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-400-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
	56	56	Conditioned 15 days at 23°C - 50% RH; ISO 868
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	54.0 MPa	7830 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	0.340 GPa	49.3 ksi	Conditioned 15 days at 23°C - 50% RH; ISO178
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	159 °C	318 °F	ISO 11357

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

Optical Properties	Metric	English	Comments
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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