

Arkema Group Pebax® 7033 SP 01 Polyether Block Amide (PEBA)

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

Material Notes:

Polyether block amide PEBAX® 7033 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade has been developed to be heat and UV resistant. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-7033-SP-01-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	ISO 1183
Water Absorption	0.90 % @Temperature 23.0 °C, Time 86400 sec	0.90 % @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
Linear Mold Shrinkage, Flow	0.012 cm/cm @Thickness 4.00 mm, Time 86400 sec	0.012 in/in @Thickness 0.157 in, Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm @Thickness 4.00 mm, Time 86400 sec	0.015 in/in @Thickness 0.157 in, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
	61 @Time 15.0 sec	61 @Time 0.00417 hour	Conditioned 15 days at 23°C - 50% RH; ISO 868
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	0.390 GPa	56.6 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 178
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

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	172 °C	342 °F	ISO 11357
Vicat Softening Point	164 °C	327 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Processing Temperature	235 °C	455 °F	Recommended Extrusion Temperature
	220 - 250 °C	428 - 482 °F	Extrusion Range
Nozzle Temperature	260 °C	500 °F	Recommended
	230 - 290 °C	446 - 554 °F	
Mold Temperature	25.0 - 60.0 °C	77.0 - 140 °F	
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	
Dry Time	5.00 - 7.00 hour	5.00 - 7.00 hour	

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