

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

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

Material Notes:

Polyether block amide PEBAX® 7033 SA 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is specially designed to food uses. Information provided by Arkema Group

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Water Absorption	1.1 % @Temperature 23.0 °C, Time 86400 sec	1.1 % @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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