

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

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

Material Notes:

Polyether block amide PEBAX® 4033 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-4033-SP-01-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ISO 1183
Water Absorption	1.2 %	1.2 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Moisture Absorption at Equilibrium	0.50 %	0.50 %	50% RH; ISO 62
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	
	@Thickness 4.00 mm, Time 86400 sec	@Thickness 0.157 in, Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	
	@Thickness 4.00 mm, Time 86400 sec	@Thickness 0.157 in, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	42	42	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
	35	35	
	@Time 15.0 sec	@Time 0.00417 hour	Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Elongation at Break	>= 450 %	>= 450 %	Conditioned 15 days at 23°C - 50% RH; ASTM D638
Flexural Modulus	0.0770 GPa	11.2 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	
	NB	NB	ISO 179
@Temperature -30.0 °C	@Temperature -22.0 °F		

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	ISO 11357
Vicat Softening Point	131 °C	268 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Processing Temperature	220 °C	428 °F	Recommended Extrusion Temperature
	210 - 230 °C	410 - 446 °F	Extrusion Range
Nozzle Temperature	200 - 270 °C	392 - 518 °F	
	240 °C	464 °F	Recommended
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Drying Temperature	60.0 - 70.0 °C	140 - 158 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

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