

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

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

Material Notes:

Polyether block amide PEBAX® 4033 SA 01 MED is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This grade offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices. PEBAX® 4033 SA 01 MED also offers an excellent combination of properties such as: kink resistance, low friction coefficient and superior dynamic response. Upon request letters regarding USP Class IV testing can be provided. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-4033-SA-01-MED-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 % @Temperature 23.0 °C, Time 86400 sec	1.2 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	0.50 % @Temperature 20.0 °C	0.50 % @Temperature 68.0 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 4.00 mm, Time 86400 sec	0.0040 in/in @Thickness 0.157 in, Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm @Thickness 4.00 mm, Time 86400 sec	0.011 in/in @Thickness 0.157 in, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35	35	Conditioned 15 days at 23°C - 50% RH; ISO 868
	42	42	Instantaneous, 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; ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179

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