

Arkema Group Pebax® 5533 SA 01 Polyether Block Amide (PEBA)

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

Material Notes:

Polyether block amide PEBAX® 5533 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-5533-SA-01-Polyether-Block-Amide-PEBA.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	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	0.60 % @Temperature 20.0 °C	0.60 % @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	0.014 cm/cm @Thickness 4.00 mm, Time 86400 sec	0.014 in/in @Thickness 0.157 in, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
	50 @Time 15.0 sec	50 @Time 0.00417 hour	Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	52.0 MPa	7540 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	0.170 GPa	24.7 ksi	Conditioned 15 days at 23°C - 50% RH; ISO178
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	@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	159 °C	318 °F	ISO 11357
Vicat Softening Point	142 °C	288 °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	25.0 - 60.0 °C	77.0 - 140 °F	
Drying Temperature	65.0 - 75.0 °C	149 - 167 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

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