

Arkema Group Rilsan® PA 11 BESNO MED Nylon 11

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Unreinforced

Material Notes:

Rilsan® PA 11 BESNO MED is a polyamide produced from a renewable source. This grade dedicated to extrusion offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices. Upon request letters regarding USP Class VI testing can be provided. Designation: PA11, E, 22-010 Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-PA-11-BESNO-MED-Nylon-11.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Water Absorption	0.95 % @Temperature 23.0 °C, Time 86400 sec	0.95 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	0.75 % @Temperature 20.0 °C	0.75 % @Temperature 68.0 °F	50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	After 15 sec, Conditioned 15 days at 23°C - 50% RH; ISO 868
	76	76	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	50.0 MPa	7250 psi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Elongation at Break	<= 200 %	<= 200 %	Conditioned 15 days at 23°C - 50% RH; ISO 527
Elongation at Yield	6.0 %	6.0 %	Conditioned 15 days at 23°C - 50% RH; ISO 527
Tensile Modulus	1.20 GPa	174 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Flexural Modulus	1.13 GPa	164 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 178
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179

Mechanical Properties Charpy Impact, Notched	Metric 1.20 J/cm ²	English 6.10 ft-lb/in ²	Comments ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	186 °C	367 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75

Processing Properties	Metric	English	Comments
Processing Temperature	250 °C	482 °F	Recommended Extrusion Temperature
	230 - 280 °C	446 - 536 °F	Extrusion Range
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Bio Based Carbon	100%	ASTM 6866, Calculation

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