

Arkema Group Rilsan® PA 11 G BMNO MED Nylon 11

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

Material Notes:

Rilsan® PA 11 G BMNO MED is a polyamide produced from a renewable source. 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. RILSAN® PA 11 G BMNO MED also offers an excellent combination of properties. Upon request letters regarding USP Class VI testing can be provided. Designation: PA11, MHLR, 12-010 Information provided by Arkema Group

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 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
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 2.00 mm, Time 86400 sec	0.0040 in/in @Thickness 0.0787 in, Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 2.00 mm, Time 86400 sec	0.0080 in/in @Thickness 0.0787 in, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	After 15 sec, Conditioned 15 days at 23°C - 50% RH; ISO 868
	75	75	Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	58.0 MPa	8410 psi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Tensile Strength, Yield	41.0 MPa	5950 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	5.0 %	5.0 %	Conditioned 15 days at 23°C - 50% RH; ISO 527
Tensile Modulus	1.28 GPa	186 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.14 GPa	163 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
Charpy Impact, Notched	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	189 °C	372 °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
Nozzle Temperature	240 - 290 °C	464 - 554 °F	
	270 °C	518 °F	Recommended
Mold Temperature	25.0 - 60.0 °C	77.0 - 140 °F	
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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