

Arkema Group Rilsamid® PA 12 AESNO MED Nylon 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Rilsamid® AESNO MED is a rigid polyamide 12 with high viscosity designed for tube extrusion. This grade dedicated to extrusion offers the highest quality and it is specifically designed to meet the stringent requirements of the medical applications such as minimally invasive devices. Upon request letters regarding USP Class VI compliance can be provided. Designation: PA12, EHL, 22-010 Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsamid-PA-12-AESNO-MED-Nylon-12.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Water Absorption	0.90 % @Temperature 23.0 °C, Time 86400 sec	0.90 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	0.70 % @Temperature 20.0 °C	0.70 % @Temperature 68.0 °F	50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	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	50.0 MPa	7250 psi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Tensile Strength, Yield	43.0 MPa	6240 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	1.44 GPa	209 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Flexural Modulus	1.18 GPa	171 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	NB	ISO 179

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	180 °C	356 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °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	230 - 270 °C	446 - 518 °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
Extrusion Temperature	240°C	Recommended

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