

Arkema Group Rilsamid® PA 12 AMNO MED Nylon 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Rilsamid® AMNO MED is a thermoplastic polyamide 12. This grade dedicated to injection 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, M, 12-010 Information provided by Arkema Group

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 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
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 2.00 mm, Time 86400 sec	0.0080 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	72	72	After 15 sec, Conditioned 15 days at 23°C - 50% RH; ISO 868
Tensile Strength at Break	64.0 MPa	9280 psi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Tensile Strength, Yield	38.0 MPa	5510 psi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Elongation at Break	<= 250 %	<= 250 %	Conditioned 15 days at 23°C - 50% RH; ISO 527
Elongation at Yield	7.0 %	7.0 %	Conditioned 15 days at 23°C - 50% RH; ISO 527
Tensile Modulus	1.17 GPa	170 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 527
Flexural Modulus	1.20 GPa	174 ksi	Conditioned 15 days at 23°C - 50% RH; ISO 178
	NB	NB	

Charpy Impact Unnotched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179 Comments
	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.900 J/cm ²	4.28 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
Nozzle Temperature	250 °C	482 °F	Recommended
	230 - 280 °C	446 - 536 °F	
Mold Temperature	40.0 °C	104 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

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