

Rilsamid® AMNO MED

Polyamide 12

Arkema

Message:

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.

MAIN APPLICATIONS

Medical molded components such as needle fittings for syringes.

Minimally invasive devices.

General Information			
Uses	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	57.0	cm ³ /10min	ISO 11357
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	74		
Shore D, 15 sec	69		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	37.0	MPa	
Break	62.0	MPa	
Tensile Strain			ISO 527-2
Yield	8.0	%	
Break	> 200	%	
Flexural Modulus	920	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	180	°C	ISO 11357-3
Additional Information	Nominal Value		Test Method

ISO Shortname	PA12, M, 12-010	ISO 1874
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	230 to 290	°C
Mold Temperature	25.0 to 60.0	°C

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