

Rilsamid® MA 4411 NAT

Polyamide 12

Arkema

Message:

Rilsamid ® MA 4411 NAT is a natural polyamide. This grade is plasticized and designed for tube extrusion. MA 4411 NAT falls into the PA12-HIPHL category according to DIN 73378.

MAIN APPLICATIONS

- Air brake.
- Tubing for use in motor vehicles.

General Information			
Additive	Plasticizer		
Features	Renewable Resource Content		
Uses	Automotive Applications		
	Tubing		
Agency Ratings	DIN 73378		
Appearance	Natural Color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	14.0	cm³/10min	ISO 11357
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	70		
Shore D, 15 sec	63		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	470	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	25.0	MPa	
Break	54.0	MPa	
Tensile Strain			ISO 527-2
Yield	23	%	
Break	> 200	%	
Flexural Modulus	350 to 450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.0	kJ/m²	
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		

23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	175	°C	ISO 11357-3
Additional Information	Nominal Value		Test Method
ISO Shortname	PA12-HIP, EHL, 22-004		ISO 1874
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 6.0	hr	
Melt Temperature	220 to 260	°C	

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