

Rilsamid® AMNO P40 TLD

Polyamide 12

Arkema

Message:

Rilsamid ® AMNO P40 TLD is a natural polyamide 12. This grade is plasticized and designed for injection molding.

MAIN APPLICATIONS

Flexible injected parts.

General Information			
Additive	Plasticizer		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	51.0	cm ³ /10min	ISO 11357
Molding Shrinkage			Internal Method
Across Flow : 30°C, 24 hr, 2.00 mm	0.90	%	
Flow : 30°C, 24 hr, 2.00 mm	1.0	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	420	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	24.0	MPa	
Break	52.0	MPa	
Tensile Strain			ISO 527-2
Yield	26	%	
Break	> 200	%	
Flexural Modulus	400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.0	kJ/m ²	
23°C	25	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	172	°C	ISO 11357-3
Additional Information	Nominal Value		Test Method
ISO Shortname	PA12-P, MHLR, 12-005		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 270	°C
Mold Temperature	20.0 to 40.0	°C

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