

Rilsamid® AMN Noir P40 TLD

Polyamide 12

Arkema

Message:

Rilsamid ® AMN Noir P40 TLD is a black coloured polyamide 12. This grade is plasticized and designed for injection molding.

MAIN APPLICATIONS

Flexible injected parts.

General Information			
Additive	Plasticizer		
Appearance	Black		
Processing Method	Injection Molding		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

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	1.2	%	
Flow : 30°C, 24 hr, 2.00 mm	1.0	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	64		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	460	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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