

Rilsamid® AMN Noir T6LD

Polyamide 12

Arkema

Message:

Rilsamid ® AMN Noir T6LD is a black coloured polyamide 12. This grade is designed for injection molding.

MAIN APPLICATIONS

Injected parts.

General Information			
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	57.0	cm ³ /10min	ISO 11357
Molding Shrinkage	Internal Method		
Across Flow : 30°C, 24 hr, 2.00 mm	0.80	%	
Flow : 30°C, 24 hr, 2.00 mm	0.80	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness	ISO 868		
Shore D	75		
Shore D, 15 sec	64		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1440	MPa	ISO 527-2
Tensile Stress	ISO 527-2		
Yield	46.0	MPa	
Break	52.0	MPa	
Tensile Strain	ISO 527-2		
Yield	6.0	%	
Break	> 200	%	
Flexural Modulus	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	ISO 179		
-30°C	5.0	kJ/m ²	
23°C	4.0	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	178	°C	ISO 11357-3
Additional Information	Nominal Value	Test Method	

ISO Shortname	PA12, MHLR, 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	20.0 to 40.0	°C

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