

Rilsamid® AMN Noir P20 TLD

Polyamide 12

Arkema

Message:

Rilsamid ® AMN Noir P20 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	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	44.0	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	550	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	31.0	MPa	
Break	50.0	MPa	
Tensile Strain			ISO 527-2
Yield	19	%	
Break	> 200	%	
Flexural Modulus	530	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.0	kJ/m ²	
23°C	18	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	174	°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	250 to 290	°C	
Mold Temperature	20.0 to 40.0	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

