

Rilsan® CLEAR G 120 Rnew

Polyamide 11

Arkema

Message:

Rilsan ® Clear G 120 Rnew is a high performance transparent polyamide with outstanding chemical resistance and stress cracking resistance. This grade has been designed for injection molding applications.

MAIN APPLICATIONS

Fuel filter container.

Instrument cover for gas station.

General Information			
Features	Good Chemical Resistance		
	High ESCR (Stress Crack Resist.)		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	6.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
23°C, 24 hr	2.8	%	
Equilibrium, 23°C, 50% RH	1.2	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	82		
Shore D, 15 sec	80		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1880	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	76.0	MPa	
Break	47.0	MPa	
Tensile Strain			ISO 527-2
Yield	7.0	%	
Break	> 50	%	
Flexural Modulus	1840	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		

23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	105	°C	ISO 75-2/B
1.8 MPa, Unannealed	99.0	°C	ISO 75-2/A
Glass Transition Temperature	120	°C	ISO 11357-2
Optical	Nominal Value	Unit	Test Method
Transmittance (2000 μm, 560 nm)	90.5	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Content	29 to 31	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	240 to 290	°C	
Mold Temperature	40.0 to 80.0	°C	

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