

Rilsan® HT CZM 30 BLACK TLD

Polyphthalamide

Arkema

Message:

Rilsan ® HT CZM 30 BLACK TLD is a polyphthalamide produced from a renewable source. This grade is glass-fiber-reinforced, formulated and designed for injection molding for high-temperature applications.

MAIN APPLICATIONS

Automotive and transportation quick connectors for flexible fuels and powertrain applications.

High-temperature injection molding.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Thermal Stability		
	Renewable Resource Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	85		
Shore D, 15 sec	83		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2
Tensile Stress (Break)	130	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	7300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179
-30°C	65	kJ/m ²	
23°C	65	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	236	°C	ISO 75-2/B
1.8 MPa, Unannealed	214	°C	ISO 75-2/A
Melting Temperature	255	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Content	67	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	

Drying Time	4.0 to 8.0	hr
Processing (Melt) Temp	270 to 320	°C
Mold Temperature	90.0 to 110	°C

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