

Rilsan® HT CMFO

Polyphthalamide

Arkema

Message:

Rilsan® HT CMFO is a polyphthalamide produced from a renewable source. This grade, designed for injection, is the less viscous one in the Rilsan® HT family.

MAIN APPLICATIONS

Glass fiber compound for electronics, automotive & transportation, etc.

Filament.

General Information			
Features	Renewable Resource Content		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Filaments		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	45.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1750	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	58.0	MPa	
Break	55.0	MPa	
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	190	%	
Flexural Modulus	1800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.0	kJ/m ²	
23°C	5.0	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	260	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Content	> 65	%	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 300	°C
Mold Temperature	80.0 to 110	°C
Extrusion	Nominal Value	Unit
Drying Temperature	100 to 110	°C
Drying Time	4.0 to 8.0	hr
Melt Temperature	270 to 310	°C

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