

Rilsan® HT CMNO

Polyphthalamide

Arkema

Message:

Rilsan ® HT CMNO is a polyphthalamide produced from a renewable source.

MAIN APPLICATIONS

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

Filament.

General Information			
Features	Renewable Resource Content		
Uses	Cable Jacketing		
	Filaments		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	10.0	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 30°C, 24 hr, 2.00 mm	1.2	%	
Flow : 30°C, 24 hr, 2.00 mm	1.3	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	81		
Shore D, 15 sec	81		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	64.0	MPa	
Break	45.0	MPa	
Tensile Strain			ISO 527-2
Yield	4.0	%	
Break	6.0	%	
Flexural Modulus	1800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	8.0	kJ/m²	
23°C	6.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	59	kJ/m²	

23°C	38	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	255	°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 300	°C	

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