

Rilsan® HT CSR 13

Polyphthalamide

Arkema

Message:

Rilsan ® HT CSR 13 is a flexible polyphthalamide produced from a renewable source. This grade is fiber-reinforced, formulated for high-temperature applications requiring static charge dissipation and designed for injection molding.

MAIN APPLICATIONS

Conductive automotive & transportation quick connector.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Renewable Resource Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	12.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	7600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	32	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	235	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Melting Temperature	250	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+6	ohms	ISO 179
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Content	53	%	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	80.0 to 110	°C	

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