RILSAN®
HT CSR13

PA11/10T,CF13,MHL, C16-080

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.

According to ASTM D6866, the biobased carbon content is measured at 52%.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	12 / *	cm³/10 min	ISO 1133
Temperature	275 / *	°C	-
	527 / *	°F	
Load	2.16 / *	kg	-
	4.76 / *	lb	
Molding Shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 7600	MPa	ISO 527-1/-2
	- / 1.1E6	psi	
Stress at Break	- / 151	MPa	ISO 527-1/-2
	- / 21900	psi	
Strain at Break	- / 2	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / 40	kJ/m²	ISO 179/1eU
	- / 19	ftlb/in²	
Charpy Impact Strength, -30°C	- / 32	kJ/m²	ISO 179/1eU
	- / 15.2	ftlb/in²	
Charpy Notched Impact Strength, +23°C	- / 5	kJ/m²	ISO 179/1eA
	- / 2.38	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 4	kJ/m²	ISO 179/1eA
	- / 1.9	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	255 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	195 / *	°C	ISO 75-1/-2
	383 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	235 / *	°C	ISO 75-1/-2
	455 / *	°F	

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OTHER PROPERTIES			
%Bio-Based	52	-	ASTM D6866
Density	1150 / 1150	kg/m³	ISO 1183
	1.15 / 1.15	g/cm³	

MAIN APPLICATIONS:

- Conductive automotive & transportation quick connector

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

Two years from the delivery. For any use above this limit, please refer to our technical services.

Processing conditions :

- Typical melt temperature (Min / Recommanded / Maxi) : 270°C / 280°C / 320°C.
- Typical mold temperature : 80 - 110°C.
- Drying time and temperature (only for bags opened for more than two hours) : 4 - 8 hours / 100 - 110°C.

PROCESSING

Injection Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Bio-Based, Conductive

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