

RILSAN®

HT CZM 30 BLACK TLD

PA11/10T,GF30,MHL,C16-090

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.

The percentage of **renewable carbon is 67%** (calculated value, based on ASTM D6866).

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	15 / *	cm³/10min	ISO 1133
Temperature	300 / *	°C	-
	572 / *	°F	-
Load	2.16 / *	kg	-
	4.76 / *	lb	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 8500	MPa	ISO 527-1/-2
	- /	psi	
Stress at Break	1.23E6	MPa	ISO 527-1/-2
	- / 130	psi	
Strain at Break	18900	%	ISO 527-1/-2
	- / 4		
Shore D Hardness	83 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / 51	kJ/m²	ISO 179/1eU
	- / 24.3	ftlb/in²	
Charpy Impact Strength, -30°C	- / 46	kJ/m²	ISO 179/1eU
	- / 21.9	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	255 / *	°C	ISO 11357-1/-3
Glass Transition Temperature, 10°C/min	75 / *	°C	ISO 11357-1/-2
	167 / *	°F	
Temp. of Deflection Under Load, 1.80 MPa	214 / *	°C	ISO 75-1/-2
	417 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	236 / *	°C	ISO 75-1/-2
	457 / *	°F	
OTHER PROPERTIES			
Water Absorption	1.13 / *	%	Sim. to ISO 62
Humidity Absorption	0.22 / *	%	Sim. to ISO 62
Density	1300 / -	kg/m³	ISO 1183
	1.3 / -	g/cm³	

RILSAN® HT CZM 30 BLACK TLD

%Bio-Based

67

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ASTM D6866

MAIN APPLICATIONS:

- Automotive & transportation quick connector for flexible fuels and powertrain applications
- High-temperature injection molding

PACKAGING:

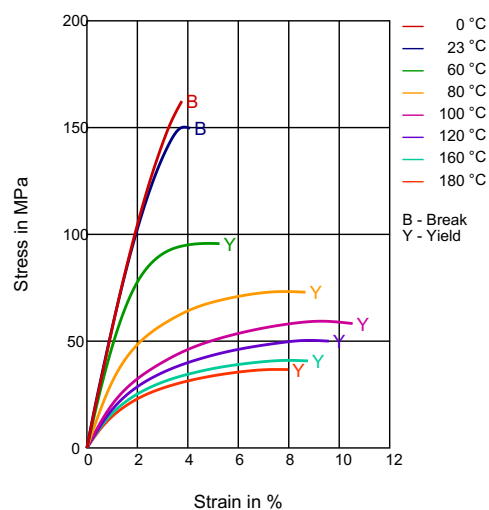
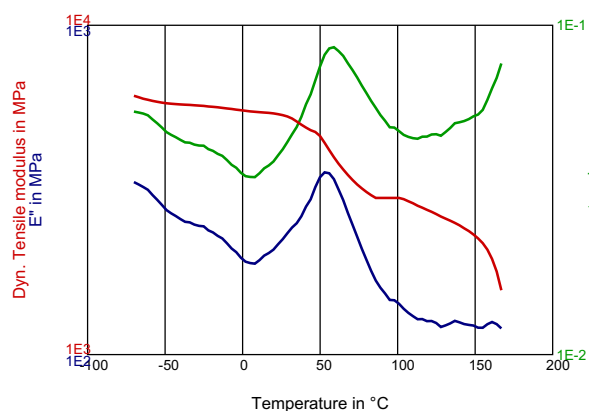
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

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

DIAGRAMS

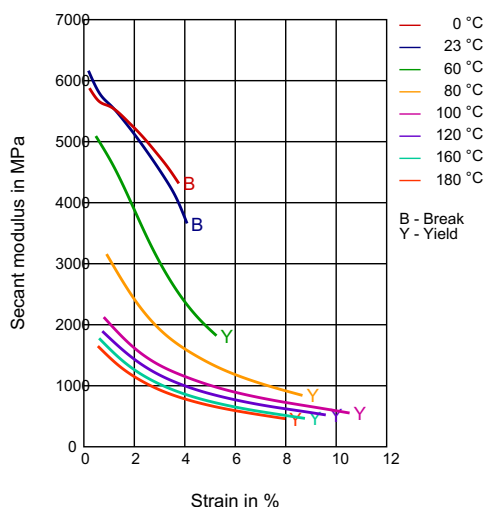
DYNAMIC TENSILE MODULUS-TEMPERATURE STRESS-STRAIN



RILSAN®

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SECANT MODULUS-STRAIN



Processing conditions :

- Typical melt temperature (Min / Recommended / Maxi) : 270°C / 280°C / 320°C.
- Typical mold temperature : 90 - 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

ADDITIVES

Release agent

SPECIAL CHARACTERISTICS

Bio-Based, Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa