

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).

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	15 / *	cm³/10min	ISO 1133
Temperature	300 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 8500	MPa	ISO 527-1/-2
Stress at Break	- / 130	MPa	ISO 527-1/-2
Strain at Break	- / 4	%	ISO 527-1/-2
Shore D Hardness, 15s	83 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	- / 51	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / 46	kJ/m²	ISO 179/1eU
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
Temp. of Deflection Under Load, 1.80 MPa	214 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	236 / *	°C	ISO 75-1/-2
OTHER PROPERTIES			
Water Absorption	1.13 / *	%	Sim. to ISO 62
Humidity Absorption	0.22 / *	%	Sim. to ISO 62
Density	1300 / -	kg/m³	ISO 1183
%Bio-Based	67	-	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.

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

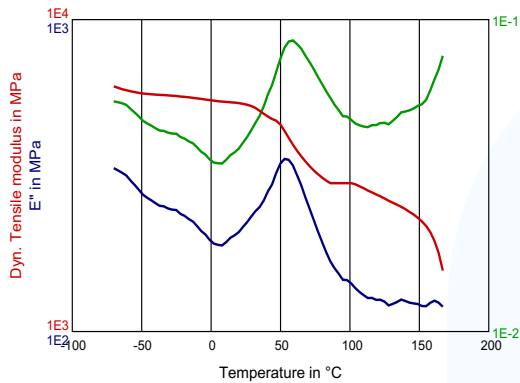
RILSAN®
HT
BY ARKEMA

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SJC/11-2018

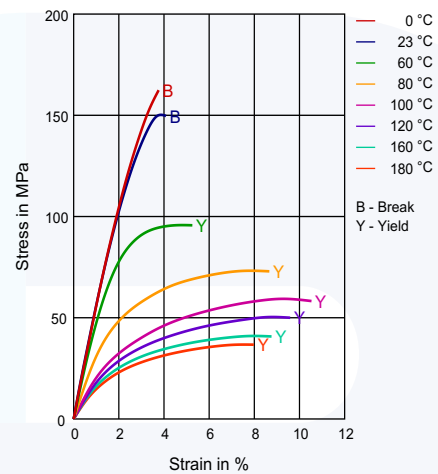
RILSAN® HT CZM 30 BLACK TLD

DIAGRAMS

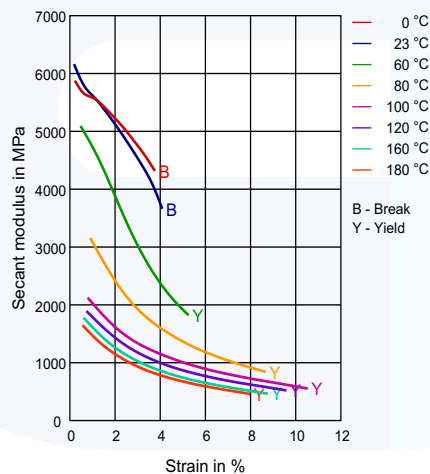
DYNAMIC TENSILE MODULUS-TEMPERATURE



STRESS-STRAIN



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

SPECIAL CHARACTERISTICS

Bio-Based, Heat Stabilized, Light Stabilized

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

RILSAN®
HT
BY ARKEMA

RILSAN® HT CZM 30 BLACK TLD

DELIVERY FORM

Pellets

ADDITIVES

Release agent

REGIONAL AVAILABILITY

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

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790
SIC/11-2018

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

Rilsan® HT is a registered trademark of Arkema
© 2022 Arkema Inc. All rights reserved.

rilsan.com

Arkema Inc. – Technical Polymers

900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-america.com

RILSAN®
HT
BY **ARKEMA**

Headquarters: Arkema France

420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com