

RILSAN®

HT CESV BLACK P010 TL

PA11/10T-I,,EHL,C16-010

Rilsan® HT CESV BLACK P010 TL is a flexible polyphthalamide produced from a renewable source, typical used to replace metal in tubing for high-temperature automotive, transportation and other demanding technical applications.

According to ASTM D6866, the biobased carbon content is measured at 48%.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	1.9 / *	cm ³ /10 min	ISO 1133
Temperature	300 / *	°C	-
	572 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1015	MPa	ISO 527-1/-2
	- / 147000	psi	
Yield Stress	- / 30	MPa	ISO 527-1/-2
	- / 4350	psi	
Yield Strain	- / 5	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness, after 15 s	66 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 84	kJ/m ²	ISO 179/1eA
	- / 40	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 16	kJ/m ²	ISO 179/1eA
	- / 7.61	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
Glass Transition Temperature, 10°C/min	82 / *	°C	ISO 11357-1/-2
	180 / *	°F	
Temp. of Deflection Under Load, 1.80 MPa	66 / *	°C	ISO 75-1/-2
	151 / *	°F	

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SDC/11-2018
Source: automatically generated TDS from Material Database on 12-08-2024

RILSAN®

HT CESV BLACK P010 TL

Temp. of Deflection Under Load, 0.45 MPa

82 / *

°C

ISO 75-1/-2

180 / *

°F

OTHER PROPERTIES

%Bio-Based

48

-

ASTM D6866

Density

1050 / -

kg/m³

ISO 1183

1.05 / -

g/cm³

MAIN APPLICATIONS:

- Thermoplastic lines for automotive & transportation applications such as high temperature air/vacuum
- aggressive media and oil management systems
- cooling and selective catalyst reduction lines etc
- Hydraulic and pneumatic lines

PACKAGING:

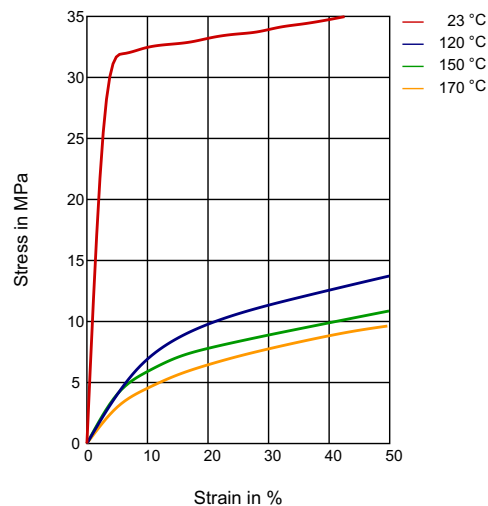
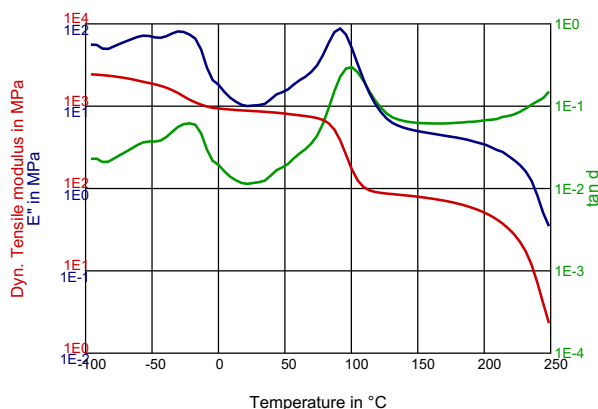
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

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

DIAGRAMS

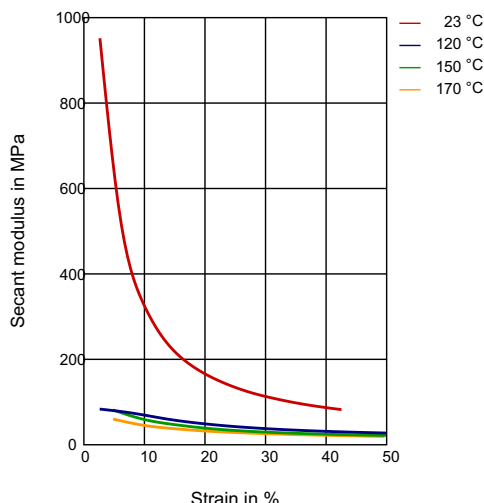
DYN. TENSILE MODULUS-TEMPERATURE STRESS-STRAIN



RILSAN®

HT CESV BLACK P010 TL

SECANT MODULUS-STRAIN



Processing conditions :

- Typical melt temperature (Min / Recommended / Max) : 270°C / 280°C / 290°C.
- Drying time and temperature (only for bags opened for more than two hours) : 8 - 12 hours at 70 °C.

PROCESSING Profile Extrusion, Other Extrusion	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
DELIVERY FORM Pellets	
SPECIAL CHARACTERISTICS Bio-Based, Heat Stabilized, Light Stabilized	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.