XZM 50 O TLD

Rilsan® XD XZM 50 O TLD is a polyamide produced from a renewable source. This natural grade is glass-fiber-reinforced and designed for injection molding.

GENERAL PROPERTIES	METHOD	UNIT	TYPICAL VALUES
Bio Based Carbon (calculation)	ASTM 6866	%	**56**
Density	ISO 1183	g/cm^3	**1.56**
Melting point	ISO 11357	℃	**190**
Shrinkage after 24h, mold at 110℃, thickness =1 mm // ⊥	Internal method	 % %	 **0.2** **0.7**
Hardness (*) instantaneous after 15 s	ISO 868	Shore D “	 **88** **86**
Tensile test (**) stress at break strain at break	ISO 527	 MPa %	 **245 / 240** **2.2 / 2.2**
Tensile modulus (**)	ISO 527	GPa	**18 / 17**
Flexural modulus (**)	ISO 178	GPa	**17 / 17**
Charpy impact (**) unnotched 23℃ notched 23℃	 ISO 179/1eU ISO 179/1eA	 kJ/m² kJ/m²	 **80 / 77** **12 / 12**
Electrical properties under 110 Hz frequency dielectric constant ε’ power factor - tan δ	 IEC 60250 IEC 60250	 - -	 **4.6** **0.011**
Electrical properties under 1 MHz frequency dielectric constant ε’ power factor - tan δ	 IEC 60250 IEC 60250	 - -	 **4.3** **0.012**

(*) Samples conditioned 15 days, 23℃ - 50 % R.H.
(**) Samples dry as moulded / conditioned 15 days, 23℃ - 50 % R.H

Drying: Time/Temperature	Processing Temperature	Part Type	Thickness	Mold temperature	In-house cycle time
4 – 8 hours 80 ℃	250 – 270 ℃	100x100x1mm plate	1 mm (fan gate 0.5 mm)	110 – 120 ℃	< 70s
		ISO 527 1BA Tensile bars	2 mm (fan gate 1 mm)	110 – 120 ℃	< 30s
		ISO 527 1A Tensile bars	4 mm (fan gate 2 mm)	90 – 100 ℃	< 50s

(*) Pellets are delivered dried in sealed packaging ready to be processed. Drying is only necessary for bags opened for more than 2 hours.

DPT/TDS/60071/October 2011

The information contained in this document is based on trials carried out by our Research Centres and data selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Arkema with regard to the handling, processing or use of the product or products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.

The world is our inspiration
Technical Polymers
420 rue d’Estienne d’Orves
92700 Colombes, France
www.arkema.com