



TECHNICAL DATA SHEET

TF700 (E2 PF501) VIRGIN PTFE

Technical data sheet issued: 28/02/2018			rev. 3	
Material	High grade virgin PTFE, extruded			
Color	White. The colour of the material may have shade variations			
Property	Test Condition	Standard	Unit	Typical Value
General				
Specific Gravity	23°C	ISO 1183	g/cm³	2,16
Shore D Hardness	23°C	ISO 868	Shore D	55
Ball Indentation Hardness	23°C H132/60	ISO 2039-1	MPa	28
Water Absorption	24 h	ASTM D570	%	< 0,01
Mechanical				
Tensile Strength	Test Speed 50 mm/min	ISO 527	MPa	24
Elongation @ Break	Test Speed 50 mm/min	ISO 527	%	250
Tensile Modulus	Test Speed 50 mm/min	ISO 527	MPa	550
Compressive Strength	1% Deformation	ASTM D695	N/mm²	4,5
Deformation Under Load	24h@13,7 N/mm², 23°C	ASTM D621	%	15
Permanent Deformation	as above, after 24h of rest	ASTM D621	%	8
Izod Notched Impact Strength	23°C	ASTM D256	J/m	155
Thermal				
Coeff. Of Thermal Linear Expansion	25°C ÷ 95°C	ASTM D696	10 ⁻⁵ /°C	12
Service Temperature	-	-	°C	-200 / +260
Melting Temperature (Base Polymer)	10°C/min	ISO 11357	°C	327
Flame Rating	3-6 mm	UL 94	Class	V-0
Heat Deflection Temperature	1,8 Mpa	ISO 75	°C	50
Electrical				
Dielectric Strength	0,5 mm thickness	IEC 60243-1	Kv/mm	60
Dielectric Constant	60 to 2 x 109 Hz	ASTM D150	-	2,1
Dissipator Factor	60 to 2 x 109 Hz	ASTM D150	-	0,0001
Volume Resistivity	23°C	IEC 60093	Ω*cm	10 ¹⁸
Surface Resistivity	23°C	IEC 60093	Ω	10 ¹⁷
Tribological				
Coefficient of Static Friction		ASTM D3702	-	0,04 - 0,08
Coefficient of Dynamic Friction		ASTM D3702	-	0,05 - 0,10
Miscellaneous				
Weathering Resistance		Weather-O-Meter	-	Excellent
Chemical Resistance		ASTM D543	-	Excellent
Product Safety & Other Approvals				
For safety instruction please refer to Material Safety Data Sheet				
Food grade FDA requirements compliant - EU 10/2011 requirements compliant				
KTW- W270-WRAS-ACS certificate available				
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