

TYNALYTE PETP

Raw Material Polyester (PET)

General Properties	Test Method	Unit	Value
Density	ISO 1183	g/cm³	1.38
Water Absorption In Air 50% r.h.	ISO 62	%	0.2
Absorption 23-C In Water-Saturation	ISO 62:1999(modified)	%	0.5
Food Compliance	-	FDA/BfR	YES
UV Stability	-	+	-
Mechanical Properties			
Tensile Strength At Yield At Break	ISO 527-1/2:1993	N/mm ²	85
Elongation at Break	ISO 527-1/2:1993	%	50
Tensile Modulus Of Elasticity	ISO 527-1/2:1993	N/mm ²	3700
Impact Strength Charpy 7.5 J	ISO 604:2002	KJ/mm ²	-
Notched Impact Strenght Charpy	ISO 180:2000	KJ/mm ²	5
Ball Indentation Hardness	-	N/mm ²	170
Rockwell Hardness	ISO 868:2003	Scale M	95
Coefficient Of Friction To Steel	-	-	0.25
Thermal Properties			
Melting Temperature	ISO 3146	°C	255
Thermal Conductivity	ISO 8301:1991	W/(km)	0.28
Deformation at temperature HDT	ISO 75	°C	95
Linear Expansion Coeficient 23-60Degrees	ISO 11359-2:1999	10 ⁻⁶ K ⁻¹	70
Service Temperature, Long Term	Average	°C	115
Service Temperature, Short Term (MAX)	Average	°C	170
Minimum Operating Temperature	Average	°C	-20
Flammability	UL 94 (3-6mm thickness)	-	НВ
Electrical Properties			
Dielectric Constant	ISO 250	-	3.2
Dissipation Factor Tanat 1 MHz	ISO 250	-	0.01
Dissipation ractor ranat ratio			
Volume Resistivity	ISO 93	cm	1 x 10 ¹⁶

Applications:

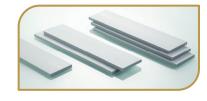
- High Tolerance Gears
- Precision Guides & Rails
- Conveyor Rollers
- Distribution Valves

Characteristics:

- Excellent Mechanical Properties
- Superior Wear Resistance
- Excellent Dimensional Stability
- Low Co-efficient Of Friction







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