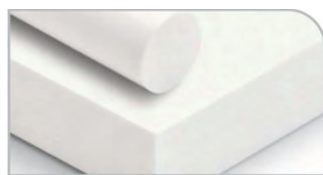


Engineering Plastics



TYNALYTE PETP

GENERAL

Density	1,38 g/cm ³	ISO 1183	DIN 53479
Water absorption in air 50% r.h.	0,2 %	ISO 62	DIN 53715
Absorption 23-C in water-saturation	0,5 %	ISO 62	DIN 53495
Colour		White	
Food Compliance – Yes		FDA / BfR	

MECHANICAL PROPERTIES

Tensile stress at yield at break	85 N/mm ²	ISO 527	DIN53455
Elongation at break	50 %	ISO 527	DIN53455
Tensile Modulus of elasticity	3700 N/mm ²	ISO 527	DIN53455
Compression test 1% strain 1000h	20 N/mm ²	ISO 899	DIN53444
Impact strength Charpy 7,5 J	N.A.	ISO R179	DIN53453
Notched impact strength Charpy	5 KJ/ mm ²	ISO179/3C	DIN53453
Ball indentation hardness	170 N/mm ²	ISO2039.1	DIN53456
Rockwell hardness	M95	ISO2039.2	DIN53456
Coefficient of friction to steel ^[12]	0,25	ISO 8295	DIN 53375

THERMAL PROPERTIES

Melting point	255 °C	ISO 3146	
Thermal conductivity	0,28 W/(km)	ISO 22007.2	DIN 52612
Deformation at temperature HDT ^[15]	95 °C	ISO75	DIN 53461
Linear expansion coefficient 23-60°C	70 x 10 ⁻⁶ K ⁻¹	ISO 11359	DIN 53752
Operating temperature continuously ^[17]	115 °C		
Operating temperature short period-no load ^[18]	170 °C		
Minimum operating temperature ^[19]	-20 °C		
Flammability UL 94 (3-6 mm thickness)	HB		UL94
Oxygen index (LOI)	22 %	ISO4589	DIN 22117

ELECTRICAL PROPERTIES

Dielectric constant at 1 MHz.	3,2	ISO 250	DIN 53483
Dielectric strength	60 KV/mm	ISO 243	DIN 53481
Volume resistivity	10 ¹⁶ Ωcm	ISO 93	DIN 53482
Dissipation factor tan Δ at 1MHz	0,01	ISO 250	DIN 53483

Characteristics:

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

Applications:

- High Tolerance Gears
- Precision Guides & Rails
- Conveyor Rollers
- Distribution Valves
- Plain Bearings
- Plug Connectors

All statements, technical information and recommendations contained in this Technical Data Sheet are presented in good faith, but all information given is without warranty and liability. The reader is cautioned, however that Tynic Engineering Plastics cannot guarantee the accuracy or completeness of this information and it is the customer's responsibility to determine the suitability of Tynic Engineering Plastics products in any given application.