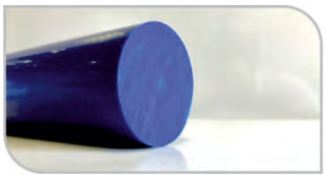
Engineering Plastics



TYNALENE 9000-BLUE

GENERAL

Density	0.93 g/cm^3	ISO 1183	DIN 53479
Water absorption in air 50% r.h.	0 %	ISO 62	DIN 53715
Absorption 23-C in water-saturation	0.02 %	ISO 62	DIN 53495
Food Compliance – Yes		FDA / BfR	
UV Stability - Yes			

MECHANICAL PROPERTIES

Tensile Modulus of elasticity	700 N/mm^2	ISO 527	DIN53455
Impact strength Charpy 7.5 J	no break	ISO R179	DIN53453
Notched impact strength Charpy	no break	ISO179/3C	DIN53453
Ball indentation hardness	34 N/mm^2	ISO2039.1	DIN53456
Shore hardness (D)	D60	ISO2039.2	DIN53456
Coefficient of friction to steel [12]	0.1	ISO 8295	DIN 53375

THERMAL PROPERTIES

Melting point	135 °C	ISO 3146	
Thermal conductivity	0.40 W/ (km)	ISO 22007.2	DIN 52612
Linear expansion coefficient 23-60°C	150 x 10^{-6} K^{-1}	ISO 11359	DIN 53752
Operating temperature continuously [17]	80 °C		
Operating temperature short period-no load [18]	90 °C		
Minimum operating temperature [19]	-200 °C		
Flammability UL 94 (3-6 mm thickness)	HB		UL94
Oxygen index (LOI)	18 %	ISO4589	DIN 22117

ELECTRICAL PROPERTIES

Dielectric constant at 1 MHz	3	ISO 250	DIN 53483
Dielectric strength	45 KV/mm	ISO 243	DIN 53481
Volume resistivity	10^{12} Ωcm	ISO 93	DIN 53482
Dissipation factor tan Δ at 1MHz	0.001	ISO 250	DIN 53483

Characteristics:

- Extremely Light Weight & Tough
- Excellent Wear Resistance
- Good Chemical Resistance
- Low Co-efficient Of Friction
- Impact Proof

Applications:

- Flow Promotion Liners
- Wear Profiles
- Conveyor Components & Rollers
- Scrolls
- Skating Rink Surfaces

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.