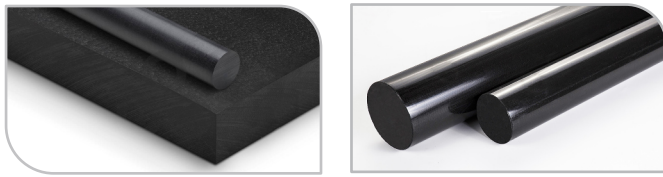


## Engineering Plastics


**TYNALYTE SW - BLACK**
**GENERAL**

Density	1,36 g/cm <sup>3</sup>	ISO 1183
Water absorption in air 50% r.h.	0,23 %	ISO 62
Absorption 23°C in water-saturation	0,5 %	ISO 62
Colour		Black

**MECHANICAL PROPERTIES**

Tensile stress at yield at break	88 N/mm <sup>2</sup>	ISO 527
Elongation at break	10 %	ISO 527
Tensile Modulus of elasticity	3400 N/mm <sup>2</sup>	ISO 527
Compression test 1% strain 1000h	28 N/mm <sup>2</sup>	ISO 604
Impact strength Charpy +23°C	82 KJ/ mm <sup>2</sup>	ISO179/1eU
Notched impact strength Charpy	2,8 KJ/ mm <sup>2</sup>	ISO179/1eA
Ball indentation hardness	177 N/mm <sup>2</sup>	ISO2039-1
Coefficient of friction to steel <sup>[12]</sup>	2.5 µm/km	ISO 7148-2

**THERMAL PROPERTIES**

Melting point	255 °C	ISO 3146
Deformation at temperature HDT <sup>[15]</sup>	100 °C	
Linear expansion coefficient 23-60°C	6 x 10 <sup>-5</sup> K <sup>-1</sup>	DIN 53752
Operating temperature continuously <sup>[17]</sup>	100 °C	
Operating temperature short period-no load <sup>[18]</sup>	160 °C	
Minimum operating temperature <sup>[19]</sup>	-20 °C	
Flammability UL 94 (3-6 mm thickness)	HB	UL94

**ELECTRICAL PROPERTIES**

Dielectric constant at 1 MHz.	3,3	IEC 250
Dielectric strength	20 KV/mm	IEC 243
Volume resistivity	10 <sup>15</sup> Ωcm	IEC 93
Dissipation factor tan Δ at 1MHz	0,02	IEC 250

**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.