

Trogamid® T5000 Resin

PROPERTY	NOMINAL VALUES	TEST METHOD
Density (23 °C)	1.12 g/cm ³	ISO 1183
Tensile Test		ISO 527-1
Yield Stress	90 MPa	ISO 527-2
Strain at Yield	8 %	
Strain at Break	> 50 %	
Tensile Modulus	2800 MPa	ISO 527-1 / 2
Flexural Modulus	3000 MPa	ISO 178
Flexural Test		ISO 178
Flexural Strength	152 MPa	
Flexural Strength at 3.5% strain	104 MPa	
Outer Fiber Strain at Maximum Stress	9 %	
Outer Fiber Strain at Break	Not Reached	
CHARPY Impact Strength (23 °C, 0 °C, -30 °C)	No Break	ISO 179/1eU
CHARPY Notched Impact Strength		ISO 179/1eA
23 °C	12 kJ/m ²	
0 °C	10 kJ/m ²	
-30 °C	7 kJ/m ²	
Hardness, Shore D	87	ISO 868
Ball Indentation Hardness (H30)	175 N/mm ²	ISO 2039-1
Temperature of Deflection		ISO 75-1
Method A (1.8 MPa)	130 °C	ISO 75-2
Method B (0.45 MPa)	145 °C	
Vicat Softening Temperature		ISO 306
Method A (10 N)	155 °C	
Method B (50 N)	150 °C	
Relative Permittivity		IEC 60250
100 Hz	4.0	
1 MHz	3.5	
Dissipation Factor		IEC 60250
100 Hz	0.021	
1 MHz	0.029	
Electric Strength (K20/P50)	26 kV/mm	IEC 60243-1
Spec. Surface Resistance	> 10 ¹⁵ Ohm cm	IEC 60093
Surface Resistance R _{0A}	> 10 ¹³ Ohm	IEC 60093
Flammability Acc. UL94		IEC 60695
0.8 mm	V-2	
1.6 mm	V-2	
Water Absorption (saturation)	7.5 %	ISO 62

*Trogamid is a registered trademark of Degussa AG

**Colorants may affect the property values. The data on this table are representative values and must not be used to establish specification.

***Typical values only. Actual properties of individual batches will vary within specification limits.