

PETG

GENERAL			
Property	Method	Units	
Density	ASTM D1505	g/cm ³	1,27
Rockwell Hardness	ASTM D-785	R-scale	105

OPTICAL			
Property	Method	Units	
Light Transmission (clear) (3mm)	DIN 5036	%	88
Refractive Index (clear)	DIN 53491		1,57

MECHANICAL			
Property	Method	Units	
Tensile modulus	EN ISO 527	MPa	2200
Tensile strength	EN ISO 527	MPa	59
Flexural strength	EN ISO 178	MPa	89
Flexural modulus	EN ISO 178	mPa	2290
Elongation	EN ISO 527	%	23
Impact strength Charpy Unnotched	EN ISO 179	kJ/m ²	non-break
Impact strength Charpy Notched	EN ISO 179	kJ/m ²	6

THERMAL			
Property	Method	Units	
Vicat softening temperature (B 50)	DIN 53460	°C	82
Temperature of deflection	DIN 53461	°C	72
Coeff. of Linear Expansion	DIN 53752	K ⁻¹	6.8x10 ⁻⁵
Thermal conductivity	DIN 52612	W/(m.K)	0.20
Decredation temperature		°C	>280
Max. service temperatur continuous use		°C	65
Max. service temperatur short term use		°C	70

ELECTRICAL			
Property	Method	Units	
Dielectric constant (100Hz)	IEC 250		2,6
Dielectrical Strength	ASTM D257	kV/mm	16
Surface Resistivity	DIN 53482	Ω	>10 ¹⁶
Volume Resistivity	DIN 53482	Ωxm	>10 ¹⁵
Dissipation factor (50Hz)	IEC 250		0,01

FIRE RESISTANCE			
EN 13501-1	B S1 d0		

PROCESSING		
<input checked="" type="checkbox"/> Sawing	<input checked="" type="checkbox"/> Flame polishing	<input checked="" type="checkbox"/> Vacuum forming
<input checked="" type="checkbox"/> Drilling	<input checked="" type="checkbox"/> Diamond polishing	<input checked="" type="checkbox"/> Drape forming
<input checked="" type="checkbox"/> Milling	<input checked="" type="checkbox"/> Cold bending	<input checked="" type="checkbox"/> Glueing
<input checked="" type="checkbox"/> Lasercutting	<input checked="" type="checkbox"/> Warm bending	<input checked="" type="checkbox"/> Printing
<input checked="" type="checkbox"/> Laser engraving	<input checked="" type="checkbox"/> Oven curving	

Suggestions and data on datasheet are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.