PETG

GENERAL Property	Method	Units	
Density	ASTM D1505	g/cm³	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/m²	non-break
Impact strength Charpy Notched	EN ISO 179	kJ/m²	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 temperatior continuous use		°C	65
Max. service temperatior 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 REACTION			
EN 13501-1	B S1 d0		

PROCESSING

☑ Sawing	☒ Flame polishing	☑ Vacuum forming
☑ Drilling	☑ Diamond polishing	☑ Drape forming
☑ Milling	☑ Cold bending	☑ Glueing
☑ Lasercutting	☑ Warm bending	☑ Printing
☑ Laser engraving	☑ Oven curving	

Imatex NV – Sluizenstraat 83 – 2900 Schoten – Belgium
☎ +32 (0)3/658.39.44 - ✉ info@imatex.be - www.imatex.be