

PETG

Technical Details

Physical	Test Method	Conditions	Unit	Result
Relative density	ISO 1183-1		g/cm ³	1.27
Water absorption	ISO 62		%	0.15
Mechanical				
Tensile strength at yield	ISO 527		MPa	51.5
Elongation at break	ISO 527		MPa	>100
Tensile modulus of elasticity	ISO 180			+2200
Flexural modulus			MPa	2100
Izod impact strength	ISO 180	notched unnotched	kJ/m ²	9.0 No burst
Rockwell hardness	DIN 2039		R scale	115
Thermal				
Service temperature			°C	-40 to 60
Heat distortion temperature	ISO 75	Load: 182 MPa	°C	68
Vicat softening temperature	ISO 306	Load: 1kg	°C	82
Coefficient of thermal expansion			mm/ m°C	0.06
Specific heat capacity	DSC		J/g °C	1.13
Electrical				
Dielectric strength	ASTM D149	500V/s	kV/mm	16
Surface resistivity	ASTM D257		Ω cm	1*E15
Optical				
Light transmission	ASTM D1003	3mm sheet	%	90
Haze	ASTM D1003		%	1*E15

Flammability standard	Classification
BS 476 Part 7	Class 1Y
UL 94	HB
DIN 4102-1	B1
DIN 5510-2	S4/SR2/ST2
CSE RF-2-75A/ RF3-77	Class 1
NF F 16-101 & 102	M2, F1

All information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers