PETG - Clear UV

Standard Sheet

Stock

Clear UV - Size (mm)	Clear UV Hi Temperature - Size (mm)
2600 x 1270 x 3	3050 x 2050 x 3
3050 x 2050 x 3	3050 x 2050 x 4
3050 x 2050 x 4	3050 x 2050 x 6
3050 x 2050 x 5	Frosted Both Sides
3050 x 2050 x 6	3050 x 2050 x 2

Properties

Electrical Properties

Property	Test Method	Units	Value
Dielectric Constant 100Hz	IEC 250		3.6
Volume Resistivity	D257	Ω.cm	$>10^{15}$
Surface Resistivity	D257	Ω	$>10^{14}$
Dielectric Strength	D149	kV/mm	16
Dissipation Factor (50Hz)	IEC 250		0.01

Impact Strengths

Property	Test Method	Units	Value
Izod (notched)	ISO180	kJ/m^2	11.5
Charpy (notched)	53453	kJ/m^2	10
Charpy (unnotched)	53453	kJ/m^2	NB

Mechanical Properties

Property	Test Method	Units	Value
Flexural Modulus	53452	MPa	2075
Flexural Strength	53452	MPa	70
Tensile Modulus	53455	MPa	2200
Tensile Strength	53455	MPa	50
Elongation	53455	%	54

Optical Properties

Property	Test Method	Units	Value (PETG & PETG UV)
Light transmission	5036	%	88
Refractive index	53491		1.57
Haze	D1003	%	<1

Physical Properties

Property	Test Method	Units	Value
Density	D1505	g/cm^3	1.27
Rockwell Hardness	D-785	R scale	105

Thermal Properties

Property	Test Method	Units	Value
Vicat Temp (A)	53460	°C	82
Heat Deflection temp (A/B)	53461	°C	72/68
Specific Heat Capacity	D-2766	J/g.K	1.1
Coefficient of Linear Thermal Expansion	53752	$K^{-1} \times 10^{-5}$	6.8
Thermal Conductivity	52612	W/m.K	0.20
Degradation Temperature		°C	>280
Max Service Temperature		°C	70
Sheet Forming Temperature Range		°C	120-160

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