



Material: PETG

Transparent glycol modified co-polyester sheet which is extremely easy to fabricate and thermoform. These properties coupled with the high transparency and high impact strength make PETG a reliable alternative in many applications where PVC, PMMA or PC have traditionally been used. High resistance to chemicals and it's compatability with foodstuffs (not UV version) make PETG a very versatile material.

Technical Specification

Property	Test Method	Units	Value
Density	ISO 1183	g/cm ³	1.45
Light Transmission	ASTM D1003	%	86-91
Refractive index @ 20°C	ISO 489	-	1.57
Moisture Absorption 24hrs (23°C)	ISO 62	%	0.2
Tensile strength at yield	ISO 527	N/mm ²	53
Elongation at yield	ISO 527	%	40
Elastic modulus	ISO 527	N/mm ²	2200
Impact Strength Charpy unnotched @ 23°C	179/2D	kJ/m ²	No break
Impact Strength Izod notched @ 23°C	180/1A	kJ/m ²	11.5
Impact Strength Izod notched @ -30°C	180/1A	kJ/m ²	4.4
Rockwell hardness	ISO 2039-2	-	R115
Linear thermal expansion coefficient (-30-40°C)	ASTM D696	mm/mm k	5.1 x 10 ⁻⁵
Heat deflection temp HDT A(1.80 N/mm ²)	ISO 75	°C	68
Heat deflection temp HDT B(0.45 N/mm ²)	ISO 75	°C	72
Thermal Conductivity	DIN 52612	W/(K.m)	0.19
Fire Classification according to UL94 3.2mm	Class	UL94	V2
Oxygen Index	ASTM D2863-77	%	26
Volume resistivity dry	IEC 93	Ohm/cm	10 ¹⁵
Surface resistivity dry	IEC93	Ohm	10 ¹⁶
Dielectric constant dry 1Mhz	IEC250	-	2.4
Dissipation factor (tan d) dry 1Mhz	IEC250	-	0.02

Availability:

Sheet - 2050 x 1250mm, 2500 x 1250mm, 3050 x 2050mm, 0.75-8mm thick
UV Stabilised, Coloured, Tinted and Textured sheets available on application.
Minimum quantities maybe required.

Applications:

Internal & external sinage, food bins/lids, displays, medical equipment, thermoformed covers, machine guard.

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The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.