



The Plastic Films Specialist

# PolyGreen™ PETG Technical Data Sheet

## Description and Applications

PolyGreen™ PETG (Polyethylene Terephthalate Glycol) are high gloss, transparent thermoplastic sheets combining exceptional clarity, toughness and ease of fabrication. Offering high impact resistance and excellent thermoformability, PETG can be cold bent, vacuum formed or heat shaped within minimal or no pre-drying under normal storage conditions. These sheets machine and fabricate easily –allowing cutting, drilling, bonding and edge finishing without cracking or stress whitening. Compared to acrylic, PolyGreen™ PETG delivers significantly higher impact strength and improved chemical resistance to many common cleaning agents and industrial solutions. It is ideal for use in protective panels, vending machines, display components, signage, baby bassinets and formed parts where durability, clarity and ease of processing are essential. Available in clear and color variants, as well as UV stabilized grades for prolonged outdoor exposure.

## Typical Property Values

Property	Test Method	Units	Value
<b>Physical</b>			
Density	ASTM D792	g/cm <sup>3</sup>	1.27
Rockwell Hardness	ASTM D785	R-Scale	108
<b>Optical</b>			
Light Transmission	ASTM D1003	%	90
Haze	ASTM D1003	%	< 1.0
<b>Mechanical</b>			
Tensile Strength @ Yield 50mm/min (2inch/min)	ASTM D638	MPa (kgf/cm <sup>2</sup> )	50 (510)
Tensile Strength @ Break 50mm/min (2inch/min)	ASTM D638	MPa (kgf/cm <sup>2</sup> )	29 (300)
Elongation @ Yield 50mm/min (2inch/min)	ASTM D638	%	4.5
Elongation @ Break 50mm/min (2inch/min)	ASTM D638	%	180
Flexural Strength 1.27mm/min (0.05inch/min)	ASTM D790	MPa (kgf/cm <sup>2</sup> )	69 (700)
Flexural Modulus 1.27mm/min (0.05inch/min)	ASTM D790	MPa (kgf/cm <sup>2</sup> )	2100 (21400)
Izod Impact Strength, Notched @ 23°C (23°F)	ASTM D256	J/m	105
<b>Thermal</b>			
Mold Shrinkage (Parallel to Flow)	ASTM D955	%	0.2 – 0.5
Heat Distortion Temperature	@ 0.455 Mpa (66psi)	°C (°F)	70 (158)
	@ 1.82 Mpa (66psi)	°C (°F)	62 (143)
<b>UL Flammability</b>			
@ 1.0mm thickness	UL94		HB
@ 1.5mm thickness	UL94		HB
@ 3.0mm thickness	UL94		V-2

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These are typical properties and are not intended for specifications purposes. If minimum certifiable properties are required, please contact your local sales representative. Reported values are based on 1.0mm thickness film unless otherwise noted.

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