



QUINN *plastics*

PRODUCT INFORMATION

QUINN™ PETG

QUINN PETG

Imagine a tough, clear sheet material offering solutions to both indoor and outdoor applications, a natural extension of your design and production possibilities: a sheet that is easy to mould and saves money on processing costs and time. Imagine no longer: it's QUINN PETG ! This extruded PETG sheet offers possibilities for designers and fabricators, from simple shapes to the most complex designs. It doesn't lose any of its toughness, not even in the most intricate designs.

The high impact performance of QUINN PETG allows the use of thinner gauge sheet than that used with some other common materials, resulting in lower material costs. It is very easy to fabricate and vacuum form which makes it ideal for a whole range of applications. Now, imagine the possibilities.

PRODUCT IDENTIFICATION

QUINN PETG is the brand name for extruded Polyethyleneterephthalate Glycol (PETG) copolyester sheet from Quinn Plastics.

The QUINN PETG programme offers solutions for both indoor and outdoor applications.

As a result of the extrusion process, Quinn Plastics can offer, in addition to clear and opal versions, a variety of colours and designs to suit a wide range of requirements.

CHARACTERISTICS

QUINN PETG has good optical properties and a brilliant surface. The PETG range of sheets are easy to fabricate, to vacuum form, and show exceptional low temperature performance.

Important benefits of QUINN PETG are that it has a very good chemical resistance and very high impact properties.

QUINN PETG meets all current food contact legislation and can be used in contact with unwrapped food. Our UV Grade is not intended for food contact and is therefore not covered by this warranty.

QUINN PETG also combines the following excellent properties:

- Easy to vacuum form, needs no predrying
- Exceptional low temperature performance
- Low water absorption
- Easy to recycle
- Very high impact properties



APPLICATIONS

- Bus shelters
- Poster glazing
- Machine guards
- Medical appliance packaging
- Displays & signs for external use
- Refrigerators and cold storeroom equipment
- Bicycle safety helmets
- Food containers Lenticular lenses / Graphic Arts
- Lighting controllers for hazardous areas
- Motorcycle windshields

PRODUCT RANGE

- QUINN PETG is available with UVP and Anti-reflex features
Standard sheet thickness range from 0,8 to 10 mm. 12 and 15 mm are also available but are subject to special order.
- Standard colours: Clear, a range of different opal shades.
- Patterns: UV protection and colours on request.
- A range of special colours with or without UV protection can be produced, subject to special conditions.
- Standard sheet dimensions are 3050 x 2050 mm, 2050mm x 1250, 3050mm x 2050mm and 2050mm x 1250mm.

Please contact your local customer service centre for a complete product overview.. For details see back of brochure.

Technical Information

GENERAL

Property	Method	Units	QUINN PETG + QUINN PETG UV
Density	D1505	g/cm ³	1.27
Rockwell Hardness	D-785	Rscale	105

OPTICAL

Property	Method	Units	QUINN PETG + QUINN PETG UV
Light Transmission	5036	%	88
Refractive Index	53491		1.57
Haze	D1003	%	<1

MECHANICAL

Property	Method	Units	QUINN PETG + QUINN PETG UV
Flexural Modulus	53452	MPa	2075
Flexural Strength	53452	MPa	70
Tensile Modulus	53455	MPa	2200
Tensile Strength	53455	MPa	50
Elongation	53455	%	54

THERMAL

Property	Method	Units	QUINN PETG + QUINN PETG UV
Vicat Temp (B)	53460	°C	82
Heat Deflection Temp. (A/B)	53461	°C	72/68
Specific Heat Capacity	D-2766	J/gK	1.1
Coefficient of linear thermal expansion	53752	K ⁻¹ x10 ⁻⁵	6.8
Thermal Conductivity	52612	W/mK	0.20
Degradation temperature		°C	>280
Max service temperature		°C	70
Sheet forming temp. range		°C	120-160

IMPACT STRENGTHS

Property	Method	Units	QUINN PETG + QUINN PETG UV
Izod(notched)	ISO 180	KJ/m ²	11.5
Charpy (notched)	53453	kJ/m ²	10
Charpy (unnotched)	53453	kJ/m ²	NB

ELECTRICAL

Property	Method	Units	QUINN PETG + QUINN PETG UV
Dielectric constant 100 HZ	IEC 250		2.6
Volume Resistivity	D257	Ω.cm	≥10 ¹⁵
Surface Resistivity	D257	Ω	≥10 ¹⁶
Dielectric Strength	D149	kV/mm	16
Dissipation Factor (50 HZ)	IEC 250		0.01



For further information:

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Quinn Plastics offers a wide range of plastic sheets that give the widest choice to industry as far as gauge, size, pattern, colour, coating and opacity are concerned.



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