



Product Data

POLYTUFF™ GP Polycarbonate Sheet

PolyTuff General Purpose sheet is manufactured to stringent quality control standards from the strongest transparent thermoplastic commercially available—polycarbonate. Offering a combination of light weight, excellent light transmission and ease of fabrication & installation, PolyTuff GP polycarbonate sheet meets or exceeds the performance of any directly competitive product in its class. This superior performance is backed by a full five year warranty against breakage when installed and cleaned according to the manufacturer's instructions. Please refer to our PolyTuff GP sheet warranty document for complete details.

Product Compliance

Polycarbonate materials used to extrude PolyTuff General Purpose sheet satisfy major building requirements for a CC-1 rating in construction applications. (ICBO, SBCCI) and are HB rated when tested to UL 94 criteria.

Availability

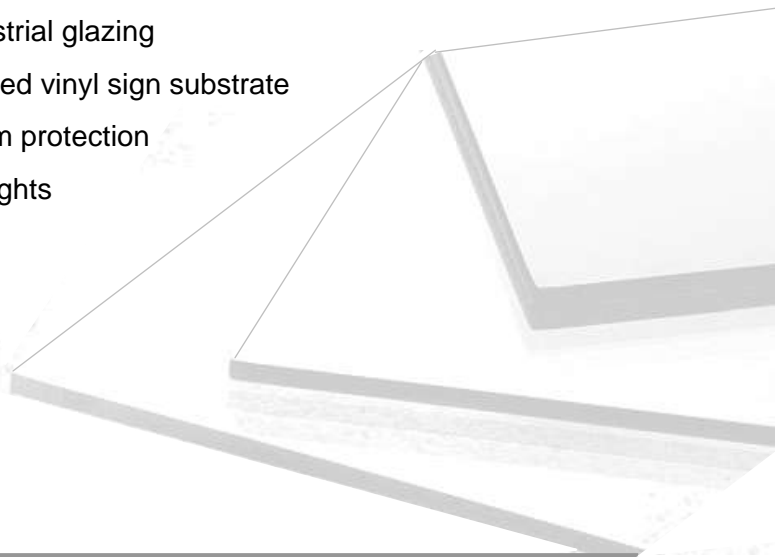
PolyTuff is readily available through authorized plastic distributors nationally. PolyTuff GP polycarbonate sheet is available in .118" (3mm), .177" (4.5mm), .220" (5.6mm) and .236" (6mm) thicknesses in 48" X 96" and 48" X 120" sheet sizes, with premium white protective masking both sides. Custom gauges and sizes available upon request. Certain minimums may apply.

PRODUCT ATTRIBUTES

- Transparent, up to 85% light transmission
- Exceptional impact strength
- Highly resistant to denting, creasing or bending
- UV stabilized
- High quality two side white protective masking
- 5 year warranty against breakage due to manufacturing defects

APPLICATIONS

- Machine guards
- Vandal resistant over-glazing
- Commercial storefronts
- Automotive after-market accessories
- Industrial glazing
- Applied vinyl sign substrate
- Storm protection
- Skylights



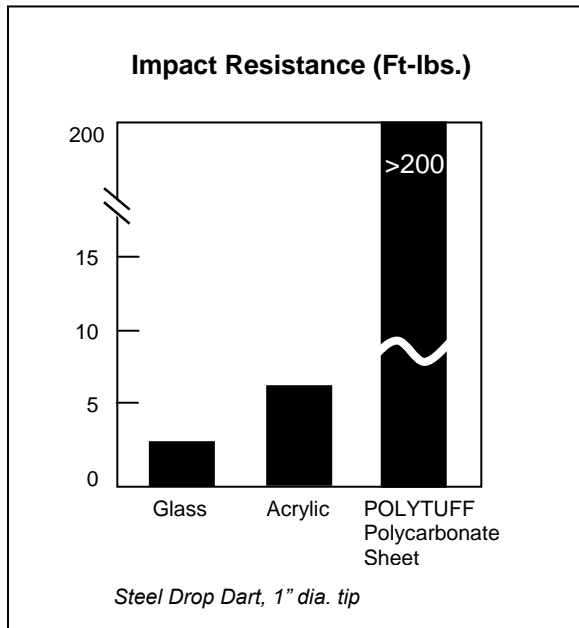
Transparent Protection Systems, Inc. is dedicated to supplying the highest quality products available. As part of the Nytef Group, TPS offers over thirty-five years experience in the manufacture of extruded thermoplastic products for industry specific applications. POLYTUFF is a trademark of Transparent Protection Systems, Inc.



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POLYTUFF General Purpose Polycarbonate Sheet

Typical Physical Properties			
Property	Test Method	Units	POLYTUFF
Mechanical			
Specific Gravity	ASTM-D792	---	1.20
Tensile Strength	ASTM-D638	psi	9,500
Tensile Elongation	ASTM-D638	%	110
Tensile Modulus of Elasticity	ASTM-D638	psi	340,000
Flexural Strength	ASTM-D790	psi	13,500
Flexural Modulus of Elasticity	ASTM-D790	psi	340,000
Compressive Strength	ASTM-D695	psi	10,200
Izod Impact (.125", notched)	ASTM-D256	ft.-lbs./in.	14-17
Rockwell Hardness	ASTM-D785	R scale	117
Thermal			
Coefficient of Linear Thermal Expansion	ASTM-D696	in./in./°F	3.8 x 10-5
Continuous Use Temp	UL 746	°F	265
Heat Deflection Temp., @ 264 psi	ASTM-D648	°F	270
Heat Deflection Temp., @ 66 psi	ASTM-D648	°F	280
Miscellaneous			
Flammability	UL-94	---	HB @ .118"
Light Transmittance @.118"	ASTM-D1003	%	85
Color		---	Transparent



High Impact Strength

PolyTuff PC sheet is manufactured from high impact polycarbonate resin, with 250 times the impact strength of float glass and 30 times that of acrylic.



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Transparent Protection Systems, Inc. will not be responsible for the use of this information relative to actual application. Users must make their own determination of its suitability for their specific application. No warranty is made for the fitness of any product, and nothing herein waives any of the seller's conditions of sale.



Owned & Operated