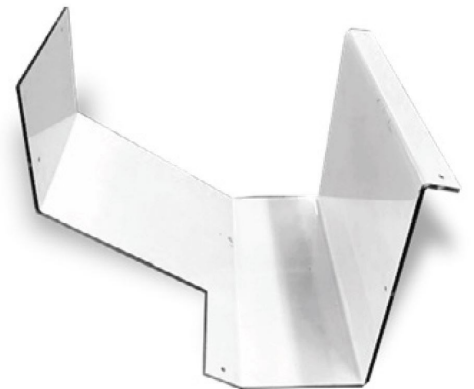


PLAZGAL PETG EXTRUDED POLYETHYLENE TEREPHTHALATE GLYCOL (PETG) SOLID SHEETS

PLAZGAL PETG sheets are made from Polyethylene Terephthalate Glycol. Plazgal PETG combines excellent transparency with toughness and excellent chemical resistance. The great advantage of PETG sheets over other transparent thermoplastic sheets are their ease to handle, machine, fabricate and print allowing a greater freedom of design. Moreover, their low temperature thermoforming without pre-drying allows for easy and cost-effective thermoforming.

Main advantages:

- High clarity and light transmission
- Excellent impact strength
- Ductile – excellent toughness
- Excellent flexibility
- Easy to clean - Chemically resistant to most common cleaners
- Lightweight. About half the weight of glass
- Easily to handle, machine and fabricate allowing design freedom
- Easy to print on
- Cold curving capability
- Easy to thermoform
- Odor free
- Halogen free
- Fully recyclable
- UV protection for outdoor use available upon request



Applications:

- POP displays
- Vending machines
- Machinery guards
- Supermarket trolley shelters
- Signing
- Glazing

| Typical Properties | Method | Units | Value |
|--------------------|--------|-------|-------|
|--------------------|--------|-------|-------|

General

| | | | |
|------------------------------------|-------|-------------------|--------|
| Density | D1505 | g/cm ³ | 1.27 |
| Water Absorption, 24 h immersion | D570 | % | 0.2 |
| Flammability (thickness dependent) | UL94 | | HB, V2 |

Mechanical

| | | | |
|---|-------|-----------|---------|
| Tensile Stress at Yield | D638 | psi | 7,700 |
| Tensile Stress at Break | D638 | psi | 3,800 |
| Elongation at Break | D638 | % | > 50 |
| Tensile Modulus | D638 | psi | 320,000 |
| Flexural Strength | D790 | psi | 11,000 |
| Flexural Modulus | D790 | psi | 310,000 |
| Impact Resistance (Izod unnotched) @ 0.125" | D4812 | | NB |
| Impact Resistance (Izod notched) @ 0.125" | D256 | ft.lbf/in | 1.7 |

Optical

| | | | |
|--|-------|---|------|
| Refractive Index | D542 | | 1.57 |
| Light Transmission (3mm transparent sheet) | D1003 | % | 90 |
| Haze (3mm transparent sheet) | D1003 | % | < 1 |

Thermal

| | | | |
|--|-------|---------|-----------------------|
| Vicat Softening Temp. (1 Kg Load) | D1525 | °F | 180 |
| Heat Deflection Temp. 66 psi 264 psi | D648 | °F | 164 157 |
| Coeff. Of Linear Thermal Expansion (0-50°C) | D696 | in/in°F | 40 X 10 ⁻⁶ |

Electrical

| | | | |
|---|-----------|------------|-------------------|
| Dielectric Constant 1kHz 1MHz | ASTM D150 | | 2.6 2.4 |
| Dissipation Factor tanδ 1kHz 1MHz | ASTM D150 | | 0.005 0.02 |
| Dielectric Strength (Short Time, 500 V/sec) | ASTM D149 | V/mil | 410 |
| Surface Resistivity | ASTM D257 | Ohm/square | >10 ¹⁶ |
| Volume Resistivity | ASTM D257 | Ohm.cm | >10 ¹⁵ |

Please note that the technical values given in the table are typical values for guidance and they are subjected to certain variability. All values (unless otherwise specified) at room temperature.

PLAZGAL PETG

| Dimensions | | |
|------------|--------------|----|
| Thickness | .030 - 0.354 | in |
| Width | 48" | in |
| Length | 96" | in |

Sheets are also available cut to size, according to customer requirements

| Grades | | |
|-----------------|------------------|---------------------------------------|
| Plazgal PETG | Non-UV protected | For internal use only |
| Plazgal PETG UV | UV coextruded | One side only (specific thickness) |

All information, recommendations or technical advice given in this technical sheet, is given in good faith, to the best of our knowledge and based on our present experience and procedures. However, no liability or other legal responsibility is assumed for the full adequacy, accuracy or completeness of this information. We reserve the right to make any changes, according to technological progress and further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods.

Product design using Plazgal PETG sheets must be carried out only by qualified experts in the sole responsibility of the customer. Performance should be verified by testing, carried out only by qualified experts in the sole responsibility of the customer.

Plazgal PETG is produced from NSF and FDA approved Spectar resin.