



PETG Sheet

A transparent copolyester sheet with a very high impact resistance, PETG sheet meets all current food legislation and can be used in contact with food. The UV grade however, is not intended for food contact. PETG sheet also combines the following excellent properties.

Features at a Glance

- Good optical properties
- Easy to vacuum form
- No pre-drying required
- Exceptional low temperature performance
- Very good chemical resistance
- Low water absorption
- Very high impact properties

| Physical Properties | Method | Units | Values |
|---------------------|--------|-------------------|--------|
| Density | D 1505 | g/cm ³ | 1.27 |
| Rockwell Hardness | D 785 | R Scale | 105 |

| Optical Properties | Method | Units | Values |
|--------------------|--------|-------|--------|
| Light Transmission | 5036 | % | 88 |
| Refractive Index | 53491 | - | 1.57 |
| Haze | D 1003 | % | <1 |

| Mechanical Properties | Method | Units | Values |
|-----------------------|--------|-------|--------|
| Flexural Modulus | 53452 | MPa | 2075 |
| Flexural Strength | 53452 | MPa | 70 |
| Tensile Modulus | 53455 | MPa | 2200 |
| Tensile Strength | 53455 | MPa | 50 |
| Elongation | 53455 | % | 54 |



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| Thermal Properties | Method | Units | Values |
|---|--------|------------------------------------|---------|
| VICAT Temperature | 53460 | °C | 82 |
| Heat Deflection Temperature | 53461 | °C | 72/68 |
| Specific Heat Capacity | D-2766 | J/gK | 1.1 |
| Coefficient of Linear Thermal Expansion | 53752 | K ⁻¹ x 10 ⁻⁵ | 6.8 |
| Thermal Conductivity | 52612 | W/mK | 0.20 |
| Degradation Temperature | - | °C | >280 |
| Max Service Temperature | - | °C | 70 |
| Sheet Forming Temperature Range | - | °C | 120-160 |

| Impact Properties | Method | Units | Values |
|-------------------|---------|-------------------|--------|
| Izod Notched | ISO 180 | kJ/m ² | 11.5 |
| Charpy Notched | 53453 | kJ/m ² | 10 |
| Charpy Unnotched | 53453 | kJ/m ² | NB |

| Electrical Properties | Method | Units | Values |
|----------------------------|---------|-------|-------------------|
| Dielectric Constant 100 HZ | IEC 250 | - | 2.6 |
| Volume Resistivity | D257 | Ω.cm | ≥10 ¹⁵ |
| Surface Resistivity | D257 | Ω.cm | ≥10 ¹⁶ |
| Dielectric Strength | D149 | kV/mm | 16 |
| Dissipation Factor (50 HZ) | IEC 250 | - | 0.01 |

The data are typical values and are not intended to represent specifications. Their aim is to guide the user towards a material choice. All statements, technical information and recommendations in this product datasheet are presented in good faith, based upon tests believed to be reliable and practical experience. However, Bay Plastics Ltd cannot guarantee accuracy or completeness of this information, and it is the buyer's responsibility to determine the suitability of products in any given application. Therefore no liability whatsoever shall attach to Bay Plastics Ltd for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the aforementioned information products by the buyer.

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