

Technical Data Sheet

PETG

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Typical Properties

- Available transparent to opaque (transparent, opal, satin, embossed)
- High light transmission of up to 90%
- Flame retardant (B1 acc. to DIN 4102)
- Physiologically safe, food-safe (transparent grade) and FDA-compliant
- Good impact strength even at low temperatures, service range -40 °C to +65 °C
- Readily thermoformable, cold-bendable and weldable

Typical Industries

- Retail displays and shopfitting
- Illuminated signage
- Exhibition and trade-show construction
- Ceiling panels
- Machine guarding and enclosures
- Orthopaedics
- Construction and design

	Test Method	Unit	Value
General Properties			
Density	DIN EN ISO 1183	g / cm ³	1.27 (Opal: 1.28)
Shore hardness D (15 s)	DIN EN ISO 868		78
Light transmission		%	90 (Opal: 25)
Flammability	DIN 4102		B1, flame retardant (1–8 mm transparent / 3–8 mm Opal)
Physiological safety	BfR		confirmed
Food contact compliance (EU)			confirmed (transparent grade)
FDA compliance	FDA		confirmed
Mechanical Properties			
Yield stress	DIN EN ISO 527	MPa	52
Yield strain	DIN EN ISO 527	%	4.5
Tensile modulus	DIN EN ISO 527	MPa	1900
Notched impact strength	DIN EN ISO 179	kJ / m ²	10 (Opal: 7)

	Test Method	Unit	Value
Thermal Properties			
Service temperature range		°C	-40 ... +65
Coefficient of linear expansion	ISO 11359-2	10^{-4} / K	0.7
Electrical Properties			
Dielectric strength	DIN IEC 60243-1	kV / mm	16
Surface resistivity	DIN IEC 60093	Ω	10^{14}

The values stated are typical average values at room temperature (23 °C), determined on test specimens in accordance with the standards indicated. They are subject to normal production tolerances, serve as an aid to material selection and do not constitute a legally binding assurance of specific properties. The processor must always carry out its own testing for the specific application.

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