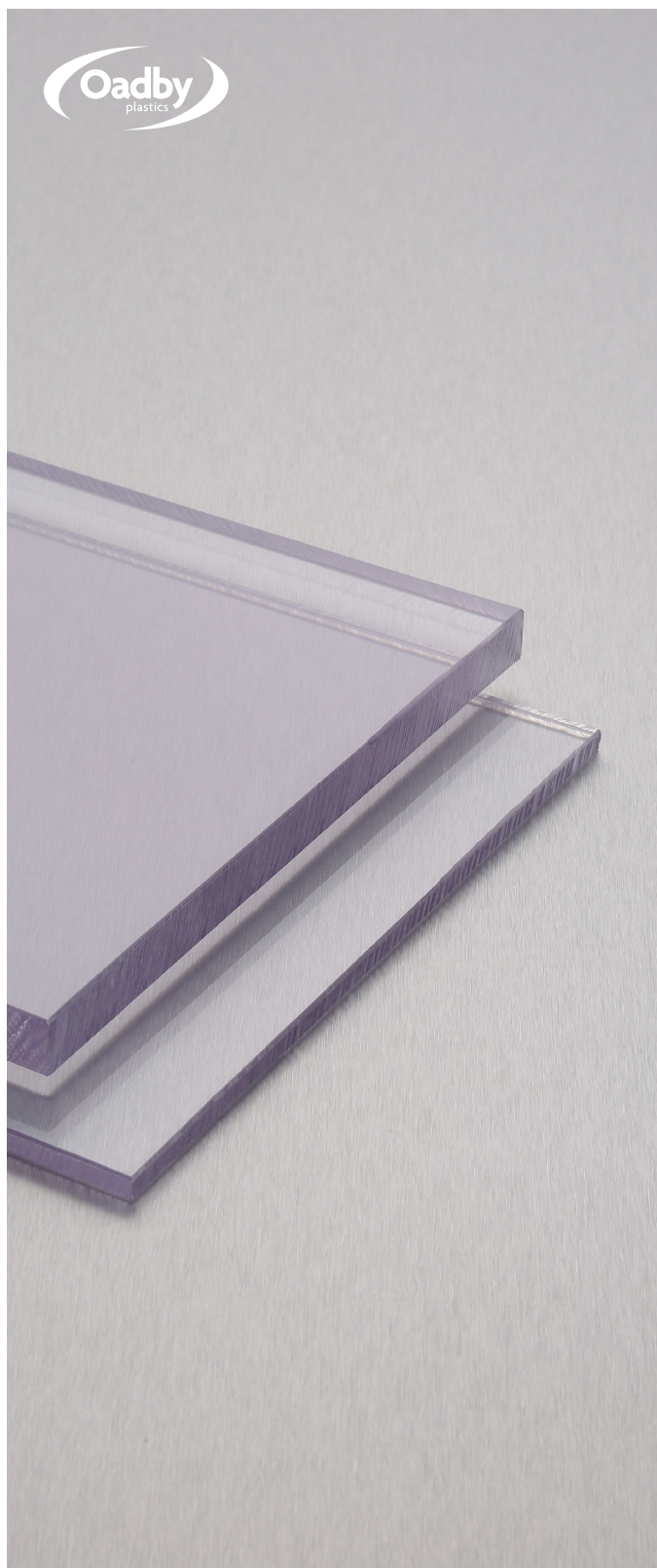


PETG

Material Information



PETG

Product full identity:

Polyethylene Terephthalate Glycol

PETG offers high impact resistance and easy fabrication, eliminating the need for pre-drying and enabling faster production. With precise thermoforming and bending while maintaining visual clarity, it is well-suited for fabricated parts, machine guards, vending machine screens, and industrial equipment.

Properties

- Easily machined and thermoformed
- High impact resistance
- Good temperature resistance (+70°C to -40°C)
- Good chemical resistance
- Easily glued and weldable
- Food contact approved

Applications

- Fabricated parts
- Machine guards
- Display shelving and racking systems
- Vending machine screens
- Industrial equipment

Forms



Sheet

PETG

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	ISO 1183-1	1.27
Water absorption until saturation at 23°C	%	ISO 62-1	0.6
Maximum service temp. Upper temp limit – short term	°C	-	70
Maximum service temp. Upper temp limit – long term	°C	-	60
Lower temp limit	°C	-	-40
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	ISO 527-2	50
Elongation at yield	%	ISO 527-2	>35
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	ISO 179-1	No break
Notch impact strength	kJ/m ²	ISO 179-1/1eA	7
Ball indentation / Rockwell hardness	MPa	ISO 2039-1	105
Shore-D		-	-
Flexural modulus of elasticity	MPa	ISO 178	2000
Tensile modulus of elasticity	MPa	ISO 527-2	2000
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	ISO 306	70
Heat deflection temperature HDT/B	°C	ISO 75-2	72/68
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	ISO 11359-2	0.068
Thermal conductivity at 23°C	W/mK	ISO 22007-1	0.20
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	IEC 62631-3-1	10 ¹⁵
Surface resistivity	Ω	IEC 62631-3-2	10 ¹⁶
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		IEC 60250	2.6
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	IEC 60243-1	16
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		FDA	Yes
Food compliance – EU		EU 10/2011	Yes
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		EN 13501-1	B-s1,d0
Optical	Unit	Test Method	Result
Light transmission	%	ISO 13468-1	88
Refractive index	-	ISO 489	1.57
Haze	%	ISO 14782	<1
Solar energy transmittance g - value (3mm)	%	DIN EN 410	82

All information provided in this Product Datasheet is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.