

PET-G SHEET

GENERAL PROPERTIES	CONDITIONS	TEST METHOD	UNIT	VALUE
Density		ISO 1183	gr/cm ³	1,27
Water Absorption (24h)	23 °C / 50% RH	ISO 62	%	0,2
Moulding Shrinkage		ASTM D955	%	0,2 - 0,5
Maximum Continuous Operating Temp.			°C	65
MECHANICAL PROPERTIES				
Tensile Stress at Break	23 °C	ISO 527-2	MPa	26
Elongation at break	23 °C	ISO 527-2	%	40
Tensile Modulus	23 °C	ISO 527-2	MPa	2200
Flexural Modulus	23 °C	ISO 178	MPa	2100
Flexural Strength	23 °C	ISO 178	MPa	69
Charpy Impact Strength, (notched)	23 °C	ISO 179	kJ/m ²	10
Charpy Impact Strength, (notched)	0 °C	ISO 179	kJ/m ²	4,2
Charpy Impact Strength, (unnotched)	23 °C	ISO 179	kJ/m ²	No Break
Charpy Impact Strength, (unnotched)	0 °C	ISO 179	kJ/m ²	No Break
Rockwell Hardness, R scale		ASTM D785		115
THERMAL PROPERTIES				
Vicat Temperature	1 kg	ISO 306	°C	83
Vicat Temperature	5 kg	ISO 306	°C	78
Deflection temperature	0.45 MPa	ISO 75	°C	72
Deflection temperature	1.80 MPa	ISO 75	°C	68
Coefficient of linear thermal expansion		ASTM D696	mm/m °C	0,07
OPTICAL PROPERTIES				
Light Transmission (Clear)		ASTM D1003	%	89
Haze (Clear)		ASTM D1044	%	< 0,5
Refractive Index		ISO 489		1,57
ELECTRICAL PROPERTIES				
Dielectrical Constant	1 kHz	ASTM D150		2,6
Dielectrical Constant	1MHz	ASTM D150		2,4
Dielectrical Strength		ASTM D149	KV/mm	16,1
FLAMMABILITY				
Fire Rating		UL94		V2
		EN 13501-1		t ≤ 8mm - B s1 d0
DIMENSIONS				
Thickness	1 - 12 mm			
Width	1220 and 2050 mm	(Depends on customer requests)		
Length	2440 and 3050 mm	(Depends on customer requests)		

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PROPERTIES

- High impact resistance
- 89% light transmission
- Excellent transparency, clarity and glossy surface
- Easy thermoforming and vacuum forming capability
- Superior chemical resistance when compared with many other transparent plastics
- Cost effective. No need to predry
- Easy to fabricate
- Suitable for food contact (non-uv protection)
- Sterilisable
- Can be cut with laser and with a shear
- Surface scratches can easily be removed with a heat gun

APPLICATION AREAS

- Advertising
- Machine safety guards
- Furniture & Decoration
- Vacuum Forming
- Retail Displays
- Lighting

COLORS AND % LIGHT TRANSMITTANCE VALUES (ASTM D1003)

THICKNESS (mm)	CLEAR	WHITE	WHITE DIFFUSER	OPAL
1	89	30	-	-
1,5	89	30 / 37	37 / 45	-
2	88	30	37	60
3	87	26 / 30	-	-
4	87	26 / 30	-	-
5	86	20 / 25	-	-
6	86	25	-	-
7	86	20	-	-
8	85	20	-	-
9	85	15	-	-
10	85	15	-	-
12	82	-	-	-

