

PET-G SHEET

<u>CONDITIONS</u>	<u>TEST METHOD</u>	<u>UNIT</u>	<u>VALUE</u>
<u>GENERAL PROPERTIES</u>			
Density	ISO 1183	gr/cm ³	1,27
Water Absorbtion (23 °C, 24h)	ISO 62	%	0,2
<u>MECHANICAL PROPERTIES</u>			
Tensile Stress at Break	ISO 527	MPa	26
Elongation at break	ISO 527	%	40
Tensile Modulus	ISO 527	MPa	2200
Flexural Modulus	ISO 178	MPa	2100
Flexural Strength	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 D 785		115
<u>THERMAL PROPERTIES</u>			
Vicat Temperature for 1 kg	ISO 306	°C	83
Vicat Temperature for 5 kg	ISO 306	°C	78
Deflection temperature for 0,45 Mpa	ISO 75	°C	72
Deflection temperature for 1,8 Mpa	ISO 75	°C	68
Coefficient of lineer thermal expansion	ASTM D 696	mm/mC	0,07
<u>ELECTRICAL PROPERTIES</u>			
Dielectrical Constant for 1 kHz	ASTM D 150		2,6
Dielectrical Constant for 1MHz	ASTM D 150		2,4
Dielectrical Strength	ASTM D 149	KV/mm	16,1
<u>OPTICAL PROPERTIES</u>			
Light Transmission (2 mm)	ASTM D 1003	%	88
Haze (2 mm)	ASTM D 1003	%	<2
Refractive Index	ASTM D 542		1,57
<u>FLAMMABILITY</u>			
Fire Resistance	UL 94		3 mm> 94V-2 3mm< 94 HB