



GRIPHTECH[®] R

GRIPHTECH[®] R is a high impact opaque sheet produced from 100% recycled material. The product is easy to fabricate and thermoform without pre-drying offering faster cycle times hence cost saving. The product offers high definition on thermoforming. The product can be used in point of sale and point of purchase applications.

GRIPHTECH[®] R properties:

- 100% recycled material
- from pure waste from the plastics industry
- same properties as conventional PETG

GRIPHTECH[®] R BENEFITS:

- Very easy to thermoform and no predrying needed
- Outstanding high surface quality
- GRIPHTECH[®] R has more than 2 times the impact strength of high impact PMMA
- Good chemical resistance

APPLICATION AREAS:

Indoor and outdoor signs, shelving and racking systems, food displays/bin/dividers, thermoformed covers, industrial equipment (machine coverings, machine protections and many different kinds of technical parts).

DELIVERY PROGRAM:

Standard size: 1250 x 2050 mm, 2050 x 3050 mm

Thickness range: 1,5 – 8 mm

GRIPHTECH® R TYPICAL PROPERTY VALUES

Property	Value	Unit	Standard
Physical properties			
Density	1,27	g/cm ³	ISO 1183
Moisture absorption 24 hours, 23 °C, 50% RH	0,2	%	ISO 62
Mechanical properties			
Tensile strength at yield (break)	> (45) 55	MPa	ISO 527
Elongation at yield (at break)	4 (40)	%	ISO 527
Elastic modulus	2200	N/mm ²	ISO 527
Flexural modulus	2300	N/mm ²	ISO 178
Charpy unnotched impact strength +23 °C	NB	kJ/m ²	ISO 179/1eU
Izod notched impact strength +23 °C	11,5	kJ/m ²	ISO 180/1A
Izod notched impact strength -30 °C	4,4	kJ/m ²	ISO 180/A
Rockwell hardness	R115	-	ISO 2039-2
Thermal properties			
Linear coefficient of thermal expansion (23-70 °C)	51x10 ⁻⁶	K ⁻¹	ISO 11359-2
Heat deflection temperature, HDT A (1,80 N/mm ²)	68	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm ²)	72	°C	ISO 75
Thermal conductivity	0,19	W/m.K	ISO 8302
Electrical properties			
Volume resistivity, dry	10 ¹⁴	Ω .cm	IEC 62631
Surface resistivity, dry	10 ¹⁵	Ω	IEC 62631
Dielectric strength, dry	30	kV/mm	IEC 60243
Dielectric constant, dry 1 MHz	2,4		IEC 62631
Dissipation factor (tan δ), dry 1 MHz	0,02		IEC 62631

Properties reported here are typical values for polycarbonate. Arla Plast makes no representation that the material in any particular shipment will conform exactly to the values given. The above information is based upon experience and given in good faith. Due to many factors which are outside our knowledge and control, no warranty is given or is to be implied with respect to such information. Detailed product specification and technical manual/information is available on request.