

GRIPHTECH®

GRIPHTECH® is an opaque coloured copolyester sheet which combines extremely good fabrication and thermoforming properties with good impact strength. The product has good fire performance, self-extinguishable and also low smoke generation (during a fire).

ALSO AVAILABLE IN:

UV protected optional
Frost surface optional
Recycled in black optional
Food compliant version

GRIPHTECH® BENEFITS:

- No predrying needed before thermoforming
- Easy to achieve high definitions with sophisticated shapes at thermoforming
- Fast cycle times in thermoforming
- Good fire properties
- Good chemical resistance

APPLICATION AREAS:

Indoor and outdoor, 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

Max width: 2050 mm

Thickness range: 1,5 – 8 mm

Colours: Standard colours, customer specific colours upon request

Embossing: 00/00

GRIPHTECH® 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