

TECHNICAL DATA

VITROFLEX RPC

The VITROFLEX RPC is a recycled opaque polycarbonate. It offers high resistance to both impact and temperature.

VITROFLEX RPC is mainly manufactured in black for thermoforming. The sheet has a core of recycled material covered with a coextruded top layer of virgin polycarbonate.

The RPC is also available in a UV version, ideal for outdoor applications. The high quality RPC is the most affordable and environmentally friendly polycarbonate option.

ADVANTAGES OF VITROFLEX RPC

- Respects the environment with a core of recycled material.
- Good impact resistance.
- Wide range of temperatures.
- Optimal price.

TYPES AND FORMATS

With thicknesses ranging from 2 to 8mm, they are available in 2050x1250mm standard size plates with a maximum width of 1450mm. They also offer various options: smooth granulation, fine 35, medium engraving 40, etc

APPLICATION AREAS

- Car industry.
- Agricultural machinery, lids and containers.
- Heavy packaging industry, where a colour band can be applied to identify a specific element.

TECHNICAL SPECIFICATIONS - VITROFLEX RPC

Properties	Value	Units	Standard
Physical properties			
Density	1.20	g/cm ³	ISO 1183
Mechanical properties			
Tensile strength	60	MPa	ISO 527
Traction elasticity module	2300	MPa	ISO 527
Elongation at break	6	%	ISO 527
Flexural strength	2300	MPa	ISO 178
Rockwell hardness	M70	R-scale	ISO 2039-2
Izod impact strength at 23°C	NB		ISO 180/1U
Thermal properties			
Thermal linear expansion coefficient (23-80°C)	0.70	10 ⁻⁴ x K ⁻¹	ISO2039-2
VICAT softening temperature	149	°C	ASTMD 2220
Bending temperature under load (Method A, 1.8MPa)	132	°C	DIN53516
Fire properties			
inflammability 1.6mm*	HB		UL94
Construction certificate (3mm)	Bs1d0		EN 13501-1

The properties described here are typical values of the material. Polimer Tecnic is not responsible for the materials of a specific consignment to exactly match the given values, being able to carry out tests of that heading. The above information is based on our experience and is given in good faith. Due to some installation and processing factors that are beyond our knowledge and control, no guarantee is given regarding such information.