PC

Polycarbonate

DESIGNATION	CHEMICAL NAME	TYPE
PC	Polycarbonate	Thermoplastic

General description

PC is a thermoplastic with very good impact strength and temperature resistance.
Supplied clear or coloured.

Processing

PC is available as semi-finished products in the form of sheets, rods and tubes.
It has good machining properties, and the material can be bonded and thermoformed.

Applications

Safety glazing.
Covers for machines and appliances.
Vacuum-formed parts in aircraft and train interiors.

Special features

Extreme impact strength.
Common trade names: Lexan, Makroform, Tuffak, Makroclear, Impax.
Withstands high temperatures.
Can be supplied with a scratch-resistant surface.
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	1.2
Tensile strength	DIN 53455	N/mm^2	60-65
Impact strength at 23 °C	DIN 53453	kJ/m^2	No break
Modulus of elasticity	DIN 53457	N/mm^2	2300-2500
Elongation at break	DIN 53455	%	6
Service temperature, continuous	-	°C	-40/+120
Thermal expansion	ASTM D 896	mm/m/°C	0.07
Flammability	UL 94		V0

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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