

Datasheet

RS PRO

Polycarbonate Clear Plate

5mm Thick x 2050mm x 1250mm

Stock No: 258-6657



Specifications:

Chemical designation	PC (Polycarbonate)
Colour	Clear
Density	1.2 g/cm ³
Filler(s)	None

Technical Specifications:

Mechanical Properties	Parameter	Value	Unit	Standard/Norm
Tensile strength at yield		>60	N/mm ²	DIN 53455
Tensile strength at break		>70	N/mm ²	DIN 53455
Modulus of elasticity		2300	N/mm ²	DIN 53457
Charpy notched impact strength		>30	kJ/m ²	DIN 53453

Physical Properties	Parameter	Value	Unit	Standard/Norm
Density		1.2	g/cm ³	DIN 53479
Refractive index		1.586		DIN 53491
Light transmission	3mm thick, clear	92	%	DIN 5036

Thermal properties	Parameter	Value	Unit	Standard/Norm
Linear expansion coefficient		68x10 ⁻⁶	m/K	-
Deflection temperature	load 1.81 MPa	135	°C	DIN 53461
Thermal conductivity		0.21	W/m.K	DIN 52612
Maximum service temperature	Permanent	100	°C	
Short term unstressed	Short term	130	°C	



Features & Benefits:

- **High strength and impact resistance**
- **Good chemical resistance**
- **High optical clarity**
- **Lightweight**
- **UV and weather resistance**
- **High light transmission**

Compliances:

- **ISO 9001 Approved**
- **ROHS**
- **REACH**