

Datasheet

RS PRO PMMA Cast Clear Plate

3mm thick x 500mm x 400mm

Stock No: 824-654

**Specifications:**

Chemical designation	Acrylic (PMMA (Poly-methyl Methacrylate))
Colour	Clear
Density	1.19 g/cm ³
Filler(s)	None

Technical Specifications:

Mechanical Properties	Parameter	Value	Unit	Standard/Norm
Modulus of elasticity (tensile test)		3000 – 3400	Mpa	ISO 527
Tensile strength		72	Mpa	ISO 527
Elongation at break		04-Jun	%	ISO 527
Flexural strength		125	Mpa	ISO 178
Compression strength		120	Mpa	ISO 604
Impact strength		Dec-15	kJ/m2	ISO 179-1
Thermal properties	Parameter	Value	Unit	Standard/Norm
Heat Stability – Vicat B		110	°C	ISO 306
Forming Temperature		130-190	°C	
Service Temperature (MAX)		80	°C	
Thermal expansion (CLTE)		0.07	M/mm °C	ISO 11359-2
Specific heat		1.47	KJ/kg °C	ISO 11357-4
Thermal conductivity		0.19	W/m °C	DIN 52612
Electrical properties	Parameter	Value	Unit	Standard/Norm
Dielectric strength		20-25	kV/mm	DIN 53481
Volume Resistivity		10 ¹⁵	Ohm*cm	DIN 53482
Other properties	Parameter	Value	Unit	Standard/Norm
Water Absorption	24h	0.3	%	ISO 62



Features & Benefits:

- **High impact strength**
- **UV resistance**
- **Good thermal stability**
- **Low water absorption**
- **Perfect transparency for displays**

Compliances:

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