

Datasheet

Polycarbonate Mirror

RS Stock number 704-1308



Chemical designation

PMMA

Colour

Mirror

Density

1,2 g/cm³

Fillers

None

Main features

- Flame Retardant
- Impact Resistant
- High Temperature

Target industries

- Sign Industry
- Display Industry
- Point of Sale
- Exhibition
- Interior Design

Mechanical properties	parameter	value	unit	norm
Modulus of elasticity (tensile test)	-	345,000	psi	D-638
Tensile strength	-	9,500	psi	D-638
Tensile strength at yield	-	9000	psi	D-638
Flexural strength	-	13,500	psi	D-790
Compression strength	-	12,500	psi	D-695
Izod Impact Strength	-	12-16	Ft.-16/in. Notch	D-256
Gardner Impact (1/2" Diameter Dart)	-	>320	Lb-in.	D5420

Thermal properties	parameter	value	unit	norm
Deflection Temperature	-	-	°F	D-648
	264 psi	270	°F	-
	66 psi	280	°F	-
Coefficient of thermal expansion	-	3.75x10 ⁻⁵	In/(in/°F)	D-696
Thermal conductivity	-	0.1125	Btu-ft (hr/ft ² -°F)	C-177

Other properties	parameter	value	unit	norm
Water absorption	-	0.15	%	D-570
Horizontal Extent of Burning	-	<1	In.	D-635
Horizontal Time of Burning	-	<1	Min.	D-635
Self Ignition Temperature	-	1077	°F	D-1929
Flash Ignition Temperature	-	872	°F	D-1929