

DATASHEET

PTFE

Polycarbonate mirror sheets offer better strength, security and flame resistance. Polycarbonate mirror is available in 3mm and 6mm in 2440x1220mm sheet.

Applications

- Bearings
- Seal Rings, Feed Screws & Star Wheels
- Valve Seats
- Insulating Sleeve & Bushes
- Cell Lids
- Wear Rings
- Friction Pads
- Lantern Rings

Benefits

- Good mechanical properties
- Exceptional temperature resistance
- High limiting oxygen index
- UV resistance
- Extremely non-adhesive
- Excellent chemical resistance
- Excellent electrical insulating properties
- Reduced friction of wear
- Suitable for food contact

Typical Properties

General Properties	Method	Unit	Test Result
Physical Properties			
Colour	-	-	White
Specific Gravity	ASTM D-792	g/cm ³	2130 – 2190
Water Absorption	ASTM D-570	%	0.01
Flammability	UL 94		V-0
Mechanical Properties			
Tensile Strength	ASTM D-4894	MPa	>20
Elongation	ASTM D-4894	%	>200
Hardness	ASTM D-2240	Shore D	>54
Ball Hardness	ASTM D-785	MPa	>23
Compression Strength at 1% Deformation	ASTM D-695	MPa	>4
Deformation Under Load	ASTM D-621	%	10-13
Permanent Deformation (after 24hrs)	ASTM D-621	%	6 – 7.5
Coefficient of Static Friction	ASTM D-1894	-	0.08 – 0.10
Coefficient of Dynamic Friction	ASTM D-1894	-	0.06 – 0.08
Wear Factor K	ASTM D-3702	-	2.900
Wear Coefficient		Cm ³ min 10-8kg	20,000-25,000
Thermal Properties			
Thermal Conductivity	ASTM C-177	W/m-K	0.34
Coefficient on Linear Thermal Expansion	ASTM D-696	10(-5) / °C	12 – 15
Electrical Properties			
Dielectric Strength	ASTM D-149	kV/mm	>30
Volume Resistivity	ASTM D-257	Ohm-cm	10(18)
Surface Resistivity	ASTM D-257	Ohm	10(17)