

UltraLite®

Fire retardant polycarbonate sheets

UltraLite® Fire retardant sheets are polycarbonate sheets offering you high impact resistance and having excellent fire rating. They are UL94-V0 rated of 3.0 mm thickness.

UltraLite® Fire retardant sheets offer you both choices UV and GP sheets.

Applications:

- Lighting fixtures
- For both indoor and outdoor usage
- Electro technical components and guards which have to comply with UL94
- Any application where improved fire behavior is needed for fire safe solutions

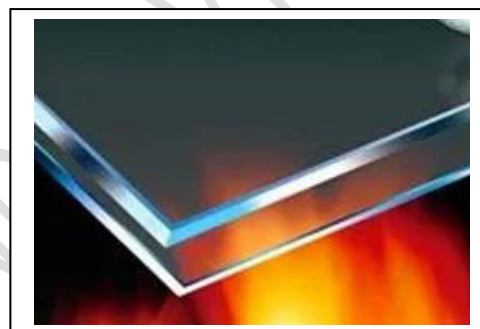
Benefits:

- High impact resistance
- Excellent flammability performance
- High optical quality
- Excellent formability



Recyclable

Available Width:- 1220 mm and 2100 mm



Property	Test conditions	Typical Values	Unit	Test Method
Physical				
Density		1.2	kg/cm ³	ISO 1183-1
Moisture absorption (equilibrium)	23°C/50%RH (equilibrium)	0.12	%	ISO 62
Moisture absorption (saturation)	Water at 23°C (saturation)	0.30	%	ISO 62
Refractive Index		1.58	-	ISO 489
Mechanical				
Tensile Modulus	1mm/min	2350	MPa	ISO 527-1,-2
Yield stress	50mm/min	65	%	ISO 527-1,-2
Yield strain	50mm/min	6.3	%	ISO 527-1,-2
Nominal strain at break	50mm/min	>50	%	ISO 527-1,-2
Flexural Modulus	2mm/min	2350	MPa	ISO 178
Flexural strength	2mm/min	96	MPa	ISO 178
Charpy impact strength	23°C, unnotched	No break	KJ/m ²	ISO 179-1eu
Charpy impact strength	23°C, 3 mm, notched	80P	KJ/m ²	ISO 179-1eu
Izod impact strength	23°C, 3.2 mm, notched	70P	KJ/m ²	ISO 180-A
Thermal				
Vicat softening temperature	50N, 50°C/h	148	°C	ISO 306
Thermal conductivity	23°C	0.20	W/(m.K)	ISO 8302
Coefficient of linear thermal expansion	23-55°C	0.65	10 ⁻⁴ /K	ISO 11359-1,-2
Temperature of deflection under load	1.8 Mpa	128	°C	ISO 75-1,-2
Temperature of deflection under load	0.45 Mpa	141	°C	ISO 75-1,-2
Fire resistance		V0		UL-94

The mechanical properties were measured on sheets of 4mm or 3mm thickness.

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