

UltraLite®

PC ABS Sheet

UltraLite® PC ABS Sheets are PC+ABS blend Fire retardant sheets also it's having excellent thermo-forming behavior and easy to machine. These sheets are halogen-free according to DIN VDE 0472, Part 815.

UltraLite® PC ABS Sheets are offering you high impact resistance, electrical safety, good chemical resistance and having excellent fire rating. They are UL94-V0 rated Sheets.

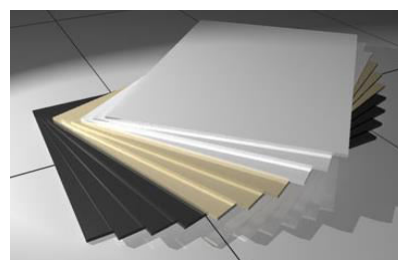
UltraLite® Fire retardant sheets offer you both choices UV and GP sheets.

Applications:

- Best for indoor applications
- Wall cladding, ceiling and other interior parts of busses, trains and metros.
- 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
- Good electrical strength
- Excellent flammability performance
- halogen-free according to DIN VDE 0472
- Good chemical resistance
- Excellent formability
- Easy to machining



Available Thickness:- 3.0-6.0 mm

Available Length:- 2440 mm and 3050 mm (or depends on customer requirement and easy to transport)

Available Width:- 1220 mm and 2050 mm

Available colors :- Beige, White and Grey (Other colors are available on customer's request and MOQ)

Available Texture:- One side plain polished Other side textured.

Property	Test conditions	Typical Values	Unit	Test Method
Physical				
Density		1190	kg/m ³	ISO 1183-1
Moisture absorption (equilibrium)	23°C/50%RH(equilibrium)	0.2	%	ISO 62
Moisture absorption (saturation)	Water at 23°C (saturation)	0.5	%	ISO 62
Mechanical				
Tensile Modulus	1mm/min	2650	MPa	ISO 527-1,-2
Yield stress	50mm/min	69	MPa	ISO 527-1,-2
Yield strain	50mm/min	5	%	ISO 527-1,-2
Izod impact strength	23°C	No break	KJ/m ²	ISO 180/U
Izod noched impact strength	23°C	40	KJ/m ²	ISO 180/A
Izodnoched impact strength	-30°C	10	KJ/m ²	ISO 180/A
Thermal				
Vicat softening temperature	50N,50°C/h	113	°C	ISO 306
Vicat softening temperature	50N,120°C/h	115	°C	ISO 306
Coefficient of linear thermal expansion	23 to 50°C	0.68	10 ⁻⁴ /K	ISO 11359-1,2
Temperature of deflection under load	1.8 Mpa	98	°C	ISO75-1,-2
Temperature of deflection under load	0.45 Mpa	106	°C	ISO75-1,-2
Fire resistance		V0		UL-94
Electrical				
Electric strength	1 mm	35	Kv/mm	IEC 60243
Volume resistivity		1 E15	oOhm-m	IEC 60093
Surface resistivity		1 E17	Ohm	IEC 60093
Relative permittivity	100 Hz	3.2	-	IEC 60250
Relative permittivity	1 Mhz	3.1	-	IEC 60250
Dissipation factor	100 Hz	37	10 ⁻⁴	IEC 60250
Dissipation factor	1 Mhz	75	10 ⁻⁴	IEC 60250

All the values has been taken from our resins technical data sheet

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