



MATERIAL SPECIFICATION

PHYSICAL PROPERTIES

	METRIC	IMPERIAL	COMMENT
Density	1.19g/cc	0.0434lb/in	ASTM D792
Water Absorption	0,30%	0,30%	24hrs ; ASTM D570
Linear Mold Shrinkage Transverse	0.0020-0.0060cm/cm	0.0020-0.0060cm/cm	ASTM D955
Melt Flow	20g/10min @load 3.80kg. Temperature 230C'	20g/10min @load 8.38kg. Temperature 446C'	ASTM D1238

MECHANICAL PROPERTIES

	METRIC	IMPERIAL	COMMENT
Hardness, Rockwell M	101	101	ASTM D785
Tensile Strength at Break	77 Mpa	11200psi	ASTM D638
Elongation at Break	6,00%	6,00%	ASTM D638
Modulus of Elasticity	3.30GPa	479ksi	ASTM D638
Flexural Yield Strength	140MPa	20320psi	ASTM D790
Flexural Modulus	3.30Gpa	479ksi	ASTM D790
Compressive Yield Strength	108Mpa	15600psi	
Izod impact, Unnotched (ISO)	2.10 kJ/m ²	0.999 ft-lb/in ²	1A; ISO 180
Charpy Impact Unnotched	2.00 J/cm ²	9.52ft-lb/in ²	eU; ISO 179
Charpy Impact Notched	0.140 J/cm ²	0.666ft-lb/in ²	1eA; ISO 179

OPTICAL PROPERTIES

	METRIC	IMPERIAL	COMMENT
Refractive Index	1,49	1,49	ASTM D542
Transmission, Visible	93% at Thickness 3.20mm	93% at Thickness 0.126 in	ASDM D1003

THERMAL PROPERTIES

	METRIC	IMPERIAL
Coefficient of Linear thermal Expansion, Parallel 23 to 55 C'	0.065mm/m'c	0.00256in/m'c
Thermal conductivity	0.2W/mk	0.2W/mk
Heat deflection temperature	127C'	260.6F'
Under load	139C'	282.2F'

PRODUCT APPLICATION

- Signage, Light Boxes
- Electrical / Electronic Applications
- Optical Applications
- Automotive Applications
- Lighting fixtures, furnitures
- Display Units, Architectural Design
- Skylids, Dommies, Appliances.

SIZE

Max. Width : 82.67" / 2,100 mm

Width Tolerance : 0.004" / 0.1mm

Standard Length : 48" / 2440 mm

Length Tolerance : 0; 0.197" / 0; +5 mm

THICKNESS & OVERALL THICKNESS TOLERANCE

THICKNESS	OVERALL THICKNESS	WEIGHT (MIN) G/M ²	MASS TOLERANCE PER UNIT AREA
1-30mm	Within ASTM standards. Factory target: +/- 0.008" or 0.20 mm	1,19	-/+3%

ACOUSTIC VALUE

THICKNESS	SOUND REDUCTION (dB)
15	30

LIGHT TRANSMITTANCE (ASTM D 1003)

THICKNESS	CLEAR	WHITE	WHITE DIFFUSER	CLEAR DIFFUSER	BRONZE	OPAL	RED
1.5 mm	92	30	20	70		60	
2 mm	92	30	20	70			4
3 mm	92	30	20	65	4,5	60/76	3
4 mm	92	30	20	65			
5 mm	92	25	16	60	4,5		
6 mm	92	25	16	60			
7 mm		20		55			
8 mm	92	20	12	55			
9 mm		15		50			
10 mm	92	15		50			
12 mm	92						
15 mm	92			48			