

LIGHT DIFFUSING POLYCARBONATE SHEET WITH ENHANCED UV RESISTANCE FOR EXTERIOR SIGNS

TOUGH, VIRTUALLY UNBREAKABLE POLYCARBONATE HIGHLIGHTS EASE OF FABRICATION, FORMING AND HANDLING

- » Eliminates visible hot spots from LED lights
- » Dimensional stability
- » Thinner deep draw areas retain strength
- » Clear and industry standard colors
- » Custom colors and sheets
- » Extensive inventory in sheet and reel stock
- » UL 94 V-2, Flammability 0.118" - 0.177"
- » UL 94 V-0, Flammability 0.236" - All colors
- » UL 879 standard for use in electric signs
- » Florida Building Code 2017, 6th Ed. High Velocity Hurricane Zone classified
- » Miami Dade NOA
- » UL 972: Burglary Resistant Glazing Materials: UL File #BP2126

TUFFAK LD STANDARD COLORS

Standard Plaskolite Color	Standard Industry Color	Standard Gauge
White/ B48	2447	0.093" - 0.236"
White/ B27	7328	0.093" - 0.236"
Red/ D96	2283	0.118" - 0.177"
Red/ D99	2793	0.118" - 0.177"
Blue/ F84	2114	0.118" - 0.177"
Blue/ F85	2051	0.118" - 0.177"
Green/ H87	2108	0.118" - 0.177"
Yellow/ M72	2037	0.118" - 0.177"
Orange/ C59	2119	0.118" - 0.177"

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

© 2021 PLASKOLITE, LLC
TUFFAK[®] is a registered trademark of Plaskolite LLC

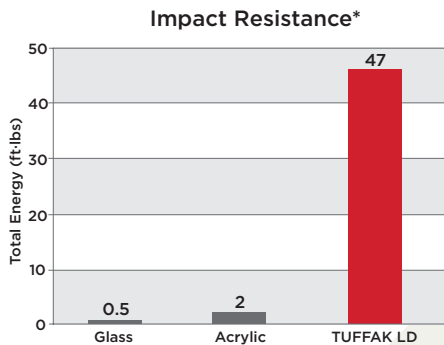
PLASKOLITE

400 Nationwide Blvd, Suite 400
Columbus, OH 43215
800.254.1707 • Fax: 800.457.3553
plaskolite@plaskolite.com
www.plaskolite.com

Typical Properties*

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D 792	-	1.2
Light Transmission, B27 white @ 0.118"	ASTM D 1003	%	27
Light Transmission, B48 white @ 0.118"	ASTM D 1003	%	50
Water Absorption, 24 hours	ASTM D 570	%	0.15
MECHANICAL			
Tensile Strength, Ultimate	ASTM D 638	psi	9,500
Tensile Strength, Yield	ASTM D 638	psi	9,000
Tensile Modulus	ASTM D 638	psi	340,000
Elongation	ASTM D 638	%	110
Flexural Strength	ASTM D 790	psi	13,500
Flexural Modulus	ASTM D 790	psi	345,000
Compressive Strength	ASTM D 695	psi	12,500
Compressive Modulus	ASTM D 695	psi	345,000
Izod Impact Strength, Notched @ 0.125"	ASTM D 256	ft-lbs/in	16
Izod Impact Strength, Unnotched @ 0.125"	ASTM D 256	ft-lbs/in	No Break
Instrumented Impact @ 0.125"	ASTM D 3763	ft-lbs	47
Shear Strength, Ultimate	ASTM D 732	psi	10,000
Shear Strength, Yield	ASTM D 732	psi	6,000
Shear Modulus	ASTM D 732	psi	114,000
Rockwell Hardness	ASTM D 785	-	M70 / R118
THERMAL			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10 ⁻⁵
Coefficient of Thermal Conductivity	ASTM C 177	BTU-in/hr-ft ² -°F	1.35
Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D 648	°F	280
Brittleness Temperature	ASTM D 746	°F	-200
ELECTRICAL			
Dielectric Constant @10 Hz	ASTM D 150	-	2.96
Dielectric Constant @ 60 Hz	ASTM D 150	-	3.17
Volume Resistivity	ASTM D 257	Ohm-cm	8.2 x 10 ¹⁶
Dissipation Factor @ 60 Hz	ASTM D 150	-	0.0009
Arc Resistance	-	-	-
Stainless Steel Strip Electrodes	ASTM D 495	Seconds	10
Tungsten Electrodes	ASTM D 495	Seconds	120
Dielectric Strength, in air @ 0.125"	ASTM D 149	V/mil	380
FLAMMABILITY			
Horizontal Burn, AEB	ASTM D 635	in	<1
Flame Class @ 0.093"	UL 94	-	V2
Flame Class @ 0.236"	UL 94	-	V0

*Typical Properties are not intended for specification purposes
 *Some values based upon clear sheet



*Instrumented Impact per ASTM D 3763, sample thickness 0.125" nominal

