LED L Block Acrylic Product Data

LED L Block

Available in 30mm thickness

LED L Block offers an alternative to traditionally constructed letters, by allowing the sign maker to router out channels and embed white or colored LEDs either inside or on a rear plate. The result: chunky, stylish, one-piece letters with an optimized, even light transmission to maximize the environmental and economic benefits of LED technology.

Offering the same ease of fabrication as standard Acrylic, guaranteed outdoor performance as well as its light weight, LED L Block provides new aesthetic opportunities in channel letter construction and signage.



Technical Data Sheet

Property	Test Method	Unit	Value
General Density Rockwell Hardness Water Absorption Flammability	ISO 1183 ISO 2039-2 ISO 62 BS 476 Part 7 DIN 4102 NFP 92-507 UL94 ISO 11925-2	g cm ⁻³ M scale % Class	1.19 102 0.2 3 B2 M4 HB E
Optical Properties Light Transmission Refractive Index	ASTM D1003 ISO 489 A	% (3 mm)	> 92 1.49
Thermal Properties Vicat Softening Point Coefficient of Thermal Expansion (Linear)	ISO 306 A	°C	> 110
	ASTM D696	x 10 ⁻⁵ . K ⁻¹	7.7
Mechanical Properties Tensile Strength Elongation at Break Flexural Strength Flexural Modulus Impact Strength – Charpy (unnotched) Poisson's Ratio	ISO 527 (5 mm/min)	MPa	75
	ISO 527 (5 mm/min)	%	4
	ISO 178 (2 mm/min)	MPa	116
	ISO 178 (2 mm/min)	MPa	3210
	ISO 179	kJ M ⁻²	12
	ISO 179	kJ M ⁻²	0.38
Electrical Properties Surface Resistivity Electrical Strength	IEC 93	Ω.m-2	> 10 ¹⁴
	IEC 243	kV.mm-1	15

