

# OPTIX L BLOCK



## OPTIX L BLOCK

OPTIX L BLOCK is cell cast acrylic ideal for chunky, ultra bright 3D characters and features optimized light transmission properties that maximize the economic and environmental benefits of LED technology. It is easy to fabricate and can be used with white or colored LEDs, to create exciting visual communications. OPTIX L BLOCK offers guaranteed indoor and outdoor performance ideal for specialized, custom-designed installations.

### Applications

POP displays, indoor / outdoor signage and channel letters

## Typical Properties\*

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Density	ISO 1183	gcm <sup>-3</sup>	1.19
Light transmission	ASTM D 1003	% (3mm)	35
Water absorption	ISO 62	%	0.2
<b>MECHANICAL</b>			
Tensile strength	ISO 527 (5mm/min)	MPa	75
Elongation at break	ISO 527 (5mm/min)	%	4
Flexural strength	ISO 178 (2mm/min)	MPa	116
Flexural modulus	ISO 178 (2mm/min)	MPa	3210
Impact strength – charpy	ISO 179	kJ M <sup>-2</sup>	12
Poisson's ratio	ISO 179	kJ M <sup>-2</sup>	0.38
Rockwell hardness	ISO 2039-2	M scale	102
<b>THERMAL</b>			
Vicat softening point	ISO 306 A	°C	>110
Coefficient of linear thermal expansion	ASTM D 696	X10 <sup>-5</sup> · K-1	7.7
Flammability	BS 476 Part 7	Class	3
	DIN 4102	-	B2
	NFP 92-507	-	M4
	UL94	-	HB
	ISO 11925-2	-	E
<b>THERMAL</b>			
Surface resistivity	IEC 93	W·m-2	>10 <sup>14</sup>
Electrical strength	IEC 243	kV·mm-1	15

\*Typical properties are not intended for specification purposes.

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.