

# lucitelux™ cell cast

## TECHNICAL BULLETIN

### PROPERTIES

Value quoted for the properties of LuciteLux™ are the results of tests on representative samples and do not constitute specifications.

Property	Test Method	Units	GS Cast	GS IM Cast
<b>General Properties</b>				
Relative Density	ISO 1183	-	1.19	1.18
Rockwell Hardness	ISO 2039-2	M scale	102	98.5
Water Absorption	ISO 62	%	0.2	0.4
Flammability	BS 476 Pt 7	Class	3	3
	DIN 4102	-	B2	B2
	NFP 92-507	-	M4	-
	UL94	-	HB	HB
	ISO 11925-2	-	E	-
<b>Mechanical Properties</b>				
Tensile strength (5 mm/min)	ISO 527	MPa	75	62
Elongation at Break (5mm/min)		%	4	-
Flexural Strength (2mm/min)		MPa	116	105
Flexural Modulus (2mm/min)		MPa	3210	2960
Impact Strength Charpy (unnotched)		$\text{kJ.m}^{-2}$	12	21.7
		$\text{kJ.m}^{-2}$	-	1.2
Izod Impact Strength		$\text{kJ.m}^{-2}$	-	-

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<b>Thermal Properties</b>				
Vicat Softening Point	ISO 306 A	°C	> 110	> 110
Coefficient of Thermal Expansion – Linear	ASTM D696	$\times 10^{-5} \cdot \text{K}^{-1}$	7.7	-
<b>Optical Properties</b>				
Light Transmission	ASTM D1003	% (0 mm)	> 92	>92
Refractive Index	ISO 489 A		1.49	
<b>Electrical Properties</b>				
Surface Resistivity	IEC 93	$\Omega \cdot \text{m}^{-2}$	$> 10^{14}$	-
Electrical Strength	IEC 243	$\text{kV} \cdot \text{mm}^{-1}$	15	-

The information is given in good faith and is based on our general experience, but because of the many particular factors which are outside our knowledge and control that affect the use of products, no warranty is given or is to be implied. Freedom from patent rights must not be assumed.

For sales and information,  
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