

## Toughened Acrylic Polymer Lucite® Diakon® IM15575

PROPERTY	TEST METHOD	UNITS	VALUE
<b>THERMAL</b>			
Melt Flow Index	ISO 1133 (3.8kg/230°C)	g/10mins	1.2
	ISO 1133 (10kg/230°C)	g/10mins	6.5
Vicat Softening Point	ISO 306A	°C	105
	ISO 306B	°C	87
Heat Deflection Temperature	ISO 75A	°C	90
<b>OPTICAL</b>			
Light Transmission	ASTM D1003	%	91
Haze	ASTM D1003	%	1.7
Refractive Index	ISO 489	-	1.49
<b>MECHANICAL</b>			
Tensile Strength	ISO 527	MPa	32
Flexural Modulus	ISO 178	GPa	1.4
Flexural Strength	ISO 178	MPa	47
Izod Impact Strength	ISO 180/1A	kJ/m <sup>2</sup>	6.3
Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	7
	ISO 179/1eU	kJ/m <sup>2</sup>	78
<b>GENERAL</b>			
Relative Density	ISO 1183	-	1.13
Rockwell Hardness	ISO 2039-2	M Scale	15
Mould Shrinkage	-	%	0.4-0.8
Water Absorption	ISO 62	%	0.36
Flammability	UL94	-	HB
Glow Wire Test	IEC 695-2-1	°C	650

The above data represents typical results obtained using standard test pieces; it should not form the basis of specifications.

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Users of Lucite Diakon polymer should consult the relevant Material Safety Data Sheet.

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