

## Toughened Acrylic Polymer Lucite® Diakon® CTG835

PROPERTY	TEST METHOD	UNITS	VALUE
<b>THERMAL</b>			
Melt Flow Index	ISO 1133	gms/10mins	1.7
Vicat Softening Point	ISO 306A	°C	108
	ISO 306B	°C	91
Heat Deflection Temperature	ISO 75A	°C	93
<b>OPTICAL</b>			
Light Transmission	ASTM D1003	%	91.5
Haze	ASTM D1003	%	1.6
Refractive Index	ISO 489	-	1.49
<b>MECHANICAL</b>			
Tensile Strength	ISO 527	MPa	43
Flexural Modulus	ISO 178	GPa	1.9
Flexural Strength	ISO 178	MPa	62
Izod Impact Strength	ISO 180/1A	kJ/m <sup>2</sup>	5.5
Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	6.2
	ISO 179/1eU	kJ/m <sup>2</sup>	74
<b>GENERAL</b>			
Relative Density	ISO 1183	-	1.14
Rockwell Hardness	ISO 2039-2	M Scale	24
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. Information contained in this publication (and otherwise supplied to users) is based on our general experience and is given in good faith, but we are unable to guarantee its accuracy or to accept responsibility in respect of factors outside our knowledge or control. Freedom under patent, copyright and registered designs cannot be assumed.

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

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**Suggested temperature profile for Injection Moulding Lucite® Diakon® CTG835**

°C	FEED THROAT	REAR ZONE	CENTRE ZONE	FRONT ZONE	NOZZLE	MOULD
300						
290						
280						
270						
260						
250						
240						
230						
220						
210						
200						
190						
180						
170						
160						
150						
100						
90						
80						
70						
60						
50						
40						



Suggested moulding temperature limits  
 Average moulding conditions

**Drying Conditions**

The material should be dried in an air circulating oven or a continuous hot air dryer, or ideally a dehumidified air dryer at 80°C for 3 to 4 hours.

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