

LUCITE® DIAKON®

Acrylic Polymer Lucite® Diakon® CLH952

technical data sheet

PROPERTY	TEST METHOD	UNITS	VALUE
THERMAL			
Melt Flow Index	ISO 1133	gms/10mins	1.6
Vicat Softening Point	ISO 306A	°C	110
	ISO 306B	°C	104
Heat Deflection Temperature	ISO 75A	°C	97
	ISO 75B	°C	101
Coefficient of Expansion	ASTM E831	cm/cm/°C x 10 ⁻⁵	7.1
OPTICAL (2mm)			
Light Transmission	ASTM D1003	%	92
Haze	ASTM D1003	%	0.4
Refractive Index	ISO 489	-	1.49
MECHANICAL			
Tensile Strength	ISO 527	MPa	83
Elongation	ISO 527	%	5
Flexural Modulus	ISO 178	GPa	3.2
Flexural Strength	ISO 178	MPa	115
Izod Impact Strength	ISO 180/1A	kJ/m ²	1.9
Charpy Impact Strength	ISO 179/1eA	kJ/m ²	2.0
	ISO 179/1eU	kJ/m ²	20
GENERAL			
Relative Density	ISO 1183	-	1.18
Rockwell Hardness	ISO 2039-2	M Scale	92
Ball Indentation Hardness	ISO 2039-1 (H 961/30)	MPa	180
Mould Shrinkage	-	%	0.4-0.7
Water Absorption	ISO 62	%	0.30
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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Contact us :
rozenburg@lucite.com
 +31 (0) 181 23 3233
lucitediakon.com

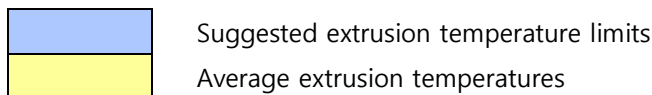
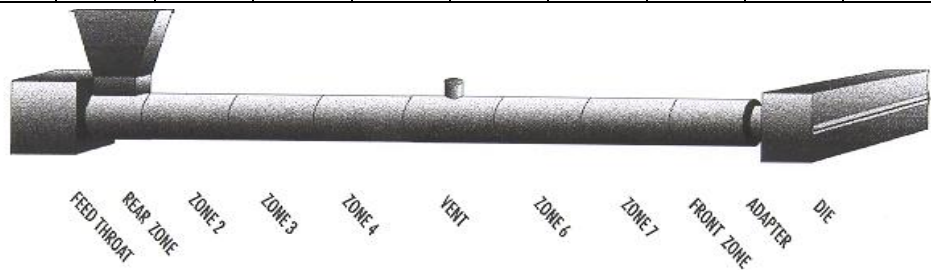
LUCITE®
 The source of inspiration

LUCITE® DIAKON®

Suggested temperature profile for Extruding

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°C	Feed Throat	Feed Zone	Zone 2	Zone 3	Zone 4	Vent Zone	Zone 6	Zone 7	Zone 8	Adapter	Die
300											
290											
280											
270											
260											
250											
240											
230											
220											
210											
200											
190											
180											
170											
160											
150											
100											
90											
80											
70											
60											
50											
40											



Drying Conditions

The material may be extruded without pre-drying using a well designed, vented extruder. The material will require pre-drying on a non-vented extruder. It is recommended using a dehumidified air dryer at 80°C for 3 to 4 hours.



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Suggested temperature profile for Injection Moulding

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°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 either an air circulating oven, a continuous hot air dryer or ideally a dehumidified air dryer at 80°C for 3 to 4 hours.