

LUCITE® DIAKON® RAPIDE

Vision and Confidence

Reduced cooling time

As an injection-moulder, reducing the cost-per-part moulded is your ultimate goal. Achieving this is far from trivial, as the processing and cooling characteristics of every material are defined by its inherent molecular structure. Processing conditions under your control are limited in the effect they can have on overall cycle time if the finished part is still to meet its specifications.

Lucite® Diakon® *Rapide* fundamentally shifts the processing window for PMMA polymer, enabling a dramatic reduction in cycle time whilst maintaining all the properties demanded of a high quality acrylic part.

Increased thermal resistance

Lucite® Diakon® *Rapide* exhibits improved thermal properties whilst maintaining the high flow required for intricate moulding.

Do you have vision and confidence?

You know that changing material grade from your incumbent product is not simply a matter of opening another bag. It requires the vision and confidence to face the unknown, potentially alter well-proven moulding conditions, and invest time in trialling towards re-approval. You may even face reorganising other contingent processes in your production which could emerge as rate-limiting steps. The reward could be a step change in efficiency and cost. Lucite International are already proving this with customers across Europe who are reaping the benefits. Do you have the vision and confidence to change?



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 should consult the relevant Material Safety Data Sheet.

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LUCITE®
The source of inspiration

Properties for Lucite® Diakon® *Rapide* CLG356B and CLG910B

PROPERTY	TEST METHOD	UNITS	CLG356B	CLG910B
THERMAL				
Melt Flow Index	ISO 1133	gms/10mins	15	6
Vicat Softening Point	ISO 306A	°C	104	112
	ISO 306B	°C	100	105
Heat Deflection Temperature	ISO 75A	°C	96	101
	ISO 75B	°C	99	104
Coefficient of Expansion	ASTM E831	cm/cm/ °C x 10 ⁻⁵	7.1	7.1
OPTICAL				
Light Transmission	ASTM D1003	%	92	92
Haze	ASTM D1003	%	0.5	0.5
Refractive Index	ISO 489	-	1.49	1.49
MECHANICAL				
Tensile Strength	ISO 527	MPa	61	66
Elongation	ISO 527	%	3.1	3.1
Flexural Modulus	ISO 178	GPa	2.9	3.1
Flexural Strength	ISO 178	MPa	59	61
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	16	19
GENERAL				
Relative Density	ISO 1183	-	1.18	1.18
Rockwell Hardness	ISO 2039-2	M Scale	97	96
Mould Shrinkage	-	%	0.4-0.7	0.4-0.7
Water absorption	ISO 62	%	0.3	0.3
Flammability	UL94	-	HB	HB
Glow Wire Test	IEC 695-2-1	°C	650	650

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

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