Diakon® TD1020

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

Diakon® TD1020 is a Polymethyl Methacrylate Acrylic material. It is available in Europe for injection molding.
Important attributes of Diakon® TD1020 are:
Flame Rated
Good Toughness

General Information			
Features	Good Toughness		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.16	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)	1.2	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.80	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	76		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	3.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	35	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	3.5	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	97.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	116	°C	ISO 306/A
--	107	°C	ISO 306/B
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM E831
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.490		ISO 489

Transmittance	90.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003

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Recommended distributors for this material

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