

Diakon® TD510

Polymethyl Methacrylate Acrylic
Lucite International Inc.

Message:

Diakon® TD510 is a Polymethyl Methacrylate Acrylic material. It is available in Europe. Primary attribute of Diakon® TD510: Flame Rated.
Typical application of Diakon® TD510: Automotive

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)	3.5	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)	88		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.1	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	22	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	2.4	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	93.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	112	°C	ISO 306/A
--	103	°C	ISO 306/B
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM E831
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Flammability Index	650	°C	IEC 60695-2-12
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance	91.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003

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