

Diakon® TD542

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

Diakon® TD542 is a Polymethyl Methacrylate Acrylic material. It is available in Europe for injection molding.

Important attributes of Diakon® TD542 are:

Flame Rated

Good Toughness

Typical application of Diakon® TD542: Automotive

General Information			
UL YellowCard	E108947-218763		
Features	Good Toughness		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	0.90	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)	25		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	45.0	MPa	ISO 527-2
Tensile Strain (Yield)	35	%	ISO 527-2
Flexural Modulus	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.8	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	5.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	91.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	108	°C	ISO 306/A
--	94.0	°C	ISO 306/B
CLTE - Flow	1.2E-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	89.0	%	ASTM D1003
Haze	3.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	190 to 250	°C	
Middle Temperature	210 to 270	°C	
Front Temperature	210 to 290	°C	
Nozzle Temperature	220 to 280	°C	
Mold Temperature	50.0 to 90.0	°C	

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