

Diakon® MH251

Polymethyl Methacrylate Acrylic

Lucite International Holland BV

Message:

Diakon® MH251 is a polymethyl methacrylate-acrylic material. This product is available in Europe. Diakon® The main characteristics of MH251 are: flame retardant/rated flame.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Average Particle Size	600	µm	
Craze Resistance	> 1.0	hr	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	99		ISO 2039-2
Ball Indentation Hardness (H 961/30)	190	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	85.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	3400	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.2	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	23	kJ/m ²	ISO 179/1eU
Notched Izod Impact	2.1	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy	0.600	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	106	°C	ISO 75-2/B
1.8 MPa, not annealed	102	°C	ISO 75-2/A
Vicat Softening Temperature			
--	117	°C	ISO 306/A
--	109	°C	ISO 306/B
CLTE - Flow	7.1E-5	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	92.0	%	ASTM D1003
Haze	0.40	%	ASTM D1003

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