

Diakon® CMH454L

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

Diakon® CMH454L is a polymethyl methacrylate-acrylic material. This product is available in Europe and is processed by extrusion or injection molding.

Diakon® The main features of the CMH454L are:

flame retardant/rated flame

chemical resistance

Heat resistance

Diakon® The typical application fields of CMH454L are: automobile industry

General Information	
Features	Good chemical resistance Heat resistance, high
Uses	Application in Automobile Field
Forms	Particles
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	1.0	g/10 min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	99		ISO 2039-2
Ball Indentation Hardness	190	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	85.0	MPa	ISO 527-2
Tensile Strain (Yield)	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
Instrumented Dart Impact	0.600	J	ASTM D3763, 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			
--	118	°C	ISO 306/A
--	109	°C	ISO 306/B
CLTE - Flow	7.1E-5	cm/cm/°C	ASTM D696
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		ASTM D542, ISO 489
Transmittance	92.0	%	ASTM D1003
Haze	0.40	%	ASTM D1003
Additional Information			

Mold Shrinkage, H961/30: .4 to .7%.Craze Resistance (isopropanol), Ineos cantilever test: >3600 secs to break.

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