

Diakon® CMG302

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

Diakon® CMG302 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 CMG302 are:

flame retardant/rated flame

Heat resistance

Diakon® The typical application areas of CMG302 are: hose

General Information			
UL YellowCard	E108947-218757		
Features	Heat resistance, high General		
Uses	Pipe fittings Profile		
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)	4.4	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)	98		ISO 2039-2
Ball Indentation Hardness	185	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	3200	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179/1eU
Notched Izod Impact	1.8	kJ/m ²	ISO 180/1A
Instrumented Dart Impact			
--	0.300	J	ASTM D3763
--	0.400	J	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	102	°C	ISO 75-2/B
1.8 MPa, not annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ISO 306/A
--	106	°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, H 961/30: .4 to .7%.Craze Resistance (isopropanol), Ineos cantilever test: 130 secs to break.

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