

Diakon® Frost 952 60

Polymethyl Methacrylate Acrylic

Lucite International Holland BV

Message:

Diakon® Frost 952 60 is a polymethyl methacrylate-acrylic material. This product is available in Europe and is processed by extrusion. Diakon® The main characteristics of Frost 952 60 are: flame retardant/rated flame.

General Information			
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.5	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)	90		ISO 2039-2
Ball Indentation Hardness (H 961/30)	170	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	72.0	MPa	ISO 527-2
Tensile Strain (Break)	6.4	%	ISO 527-2
Flexural Modulus	3200	MPa	ISO 178
Flexural Stress	120	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	22	kJ/m ²	ISO 179/1eU
Notched Izod Impact	1.6	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	99.0	°C	ISO 75-2/B
1.8 MPa, not annealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	108	°C	ISO 306/A
--	101	°C	ISO 306/B
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
Transmittance			ASTM D1003
1000 µm	83.0	%	ASTM D1003
1500 µm	77.0	%	ASTM D1003

2000 μm	71.0	%	ASTM D1003
2500 μm	58.0	%	ASTM D1003
Haze			ASTM D1003
1000 μm	97	%	ASTM D1003
1500 μm	98	%	ASTM D1003
2000 μm	98	%	ASTM D1003
2500 μm	99	%	ASTM D1003

Extrusion	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	3.0 - 4.0	hr
Hopper Temperature	50 - 90	°C
Cylinder Zone 1 Temp.	160 - 250	°C
Cylinder Zone 2 Temp.	180 - 260	°C
Cylinder Zone 3 Temp.	200 - 260	°C
Cylinder Zone 4 Temp.	220 - 270	°C
Cylinder Zone 5 Temp.	220 - 270	°C
Adapter Temperature	210 - 270	°C
Die Temperature	210 - 270	°C

Extrusion instructions

Zone 6: 220 to 270°C Zone 7: 210 to 270°C Zone 8: 210 to 270°C

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