

Diakon® ST50G8

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

Diakon® ST50G8 is a Polymethyl Methacrylate Acrylic material. It is available in Europe for injection molding.

Important attributes of Diakon® ST50G8 are:

Flame Rated

Good Toughness

General Information			
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)	0.37	%	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)	43.0	MPa	ISO 527-2
Tensile Strain (Yield)	40	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	80	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	8.0	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			
--	107	°C	ISO 306/A
--	92.0	°C	ISO 306/B
CLTE - Flow	1.2E-4	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		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	
Hopper Temperature	50.0 to 80.0	°C	
Rear Temperature	200 to 240	°C	
Middle Temperature	210 to 260	°C	
Front Temperature	220 to 280	°C	
Nozzle Temperature	220 to 270	°C	
Mold Temperature	40.0 to 70.0	°C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

