

LUCITE® SuperTuf™ ST50G8

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

LUCITE® SuperTuf™ ST50G8 is a polymethyl methacrylate-acrylic material. This product is available in North America and is processed by extrusion or injection molding.

LUCITE® SuperTuf™ The main features of ST50G8 are:

flame retardant/rated flame

Good toughness

Impact resistance

good weather resistance

Typical application areas include:

Electrical/electronic applications

electrical appliances

House

General Information			
Features	Impact resistance, good		
	Good liquidity		
	Good weather resistance		
	Good toughness		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Shell		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.9	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	25		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1590	MPa	ASTM D638
Tensile Stress (Yield)	43.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	96	J/m	ASTM D256

Dart Drop Impact	9.04	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	91.1	°C	ISO 75-2/A
Vicat Softening Temperature	107	°C	ISO 306/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
Yellowness Index	1.0	YI	ASTM D1925
Injection	Nominal Value	Unit	
Drying Temperature	65.6 - 73.9	°C	
Rear Temperature	216	°C	
Middle Temperature	224	°C	
Front Temperature	232	°C	
Nozzle Temperature	238	°C	
Processing (Melt) Temp	210 - 260	°C	
Mold Temperature	48.9 - 79.4	°C	
Injection instructions			
Heated Manifold: 465°FHeated Drop (Sprue): 470°F			

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