LUCITE® SuperTuf™ ST50G6

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

LUCITE®SuperTuf™ST50G6 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 ST50G6 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, high 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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	11	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	20		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1450	MPa	ASTM D638
Tensile Stress (Yield)	36.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	1300	MPa	ISO 178
Flexural Stress	45.0	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)	83.9	°C	ISO 75-2/A
Vicat Softening Temperature	93.9	°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

Recommended distributors for this material

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