

SUMIPEX® LG21

Polymethyl Methacrylate Acrylic

Sumitomo Chemical Co., Ltd.

Message:

SUMIPEX general-purpose grades can be classified into two basic categories; good flow and heat resistant types. Each grade is available in pellet form. Bead form is available for some grades

General Information			
UL YellowCard	E54705-245053		
Features	Good Flow		
Uses	Lighting Fixtures		
	Optical Applications		
	Thin-walled Parts		
UL File Number	E54705B		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.19	g/cm ³	JIS K7112
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	21	g/10 min	JIS K7210
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	JIS K7209
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	88		JIS K7202
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	55.0	MPa	JIS K7113
Tensile Elongation (Break)	5.0	%	JIS K7113
Flexural Modulus	3000	MPa	JIS K7203
Flexural Strength	100	MPa	JIS K7203
Flexural Rigidity	4.0	%	JIS K7203
Voltage Resistance ²	20.0	kV/min	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.3	kJ/m ²	JIS K7110
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³ (1.8 MPa, Annealed)	92.0	°C	JIS K7207
Vicat Softening Temperature	98.0	°C	JIS K7206
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+16	ohms	JIS K6911
Volume Resistivity	> 1.0E+15	ohms · cm	JIS K6911

Dielectric Constant	3.10		JIS K6911
Dissipation Factor	0.040		JIS K6911
Insulation Resistance	> 1.0E+15	ohms	JIS K6911
Flammability	Nominal Value	Unit	Test Method
Burning Rate	30	mm/min	ASTM D63
Flame Rating (1.59 mm, All Colors)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		JIS K7105
Transmittance ⁴	93.0	%	JIS K7105
Haze	< 0.50	%	JIS K7105
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	200 to 260	°C	
Middle Temperature	200 to 260	°C	
Front Temperature	200 to 260	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	58.8 to 118	MPa	
NOTE			
1.	Method A		
2.	60%, 1kHz		
3.	VST 25±3, 4 hrs		
4.	Method A		

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