SUMIPEX® LG2

Polymethyl Methacrylate Acrylic **Sumitomo Chemical Co., Ltd.**

Technical Data

Product Description

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			
Material Status	Commercial: Active		
Literature ¹	 Processing - Injection Molding (English) Technical Datasheet - Chemical Resistance (English) Technical Datasheet (English) 		
UL Yellow Card ²	E54705-245053E202194-227959		
Search for UL Yellow Card	Sumitomo Chemical Co., Ltd. SUMIPEX®		
Availability	Asia Pacific	Europe	North America
Features	Good Flow		
Uses	 Industrial Applications 	 Stationary Supplies 	
UL File Number	• E54705B		
Forms	Pellets		
Processing Method	 Injection Molding 		

Physical	Nominal Value Unit	Test Method	
Density / Specific Gravity ⁴	1.19 g/cm ³	JIS K7112	
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	15 g/10 min	JIS K7210	
Molding Shrinkage - Flow	0.20 to 0.60 %	ASTM D955	
Water Absorption (24 hr)	0.30 %	JIS K7209	
Mechanical	Nominal Value Unit	Test Method	
Tensile Strength	68.0 MPa	JIS K7113	
Tensile Elongation (Break)	7.0 %	JIS K7113	
Flexural Modulus	3100 MPa	JIS K7203	
Flexural Strength	110 MPa	JIS K7203	
Flexural Rigidity	5.0 %	JIS K7203	
Impact	Nominal Value Unit	Test Method	
Charpy Notched Impact Strength	1.4 kJ/m²	JIS K7110	
Hardness	Nominal Value Unit	Test Method	
Rockwell Hardness (M-Scale)	94	JIS K7202	
Thermal	Nominal Value Unit	Test Method	
Deflection Temperature Under Load ⁵		JIS K7207	
1.8 MPa, Annealed	90.0 °C		
Vicat Softening Temperature	95.0 °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 (1.6 mm, All Colors)	HB	UL 94	



1 of 3

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Optical	Nominal Value Unit	Test Method
Refractive Index	1.490	JIS K7105
Light Transmittance ⁴	93.0 %	JIS K7105
Haze	< 0.500 %	JIS K7105
Additional Information	Nominal Value Unit	Test Method
Voltage Resistance ⁶	20.0 kV/min	JIS K6911
Injection	Nominal Value Unit	
Druing Temperature	70 to 90 °C	

Drying Temperature	70 to 80 °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 to 80 °C
Injection Pressure	58.8 to 118 MPa

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Method A

⁵ VST 25±3, 4 hrs

⁶ 60%, 1kHz



2 of 3

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Where to Buy

Supplier

Sumitomo Chemical Co., Ltd. The Woodlands, The Woodlands USA Telephone: 281-298-7779 Web: http://www.sumitomo-chem.co.jp/

Distributor

Calsak Polymers Telephone: 800-743-2595 Web: http://www.calsak.com/ Availability: North America

Nexeo Plastics - Europe

Nexeo Plastics is a Pan European distribution company. Contact Nexeo for availability of individual products by country. Telephone: +34-93-480-9125 Web: https://www.nexeoplastics.com/ Availability: Bulgaria, Czech Republic, France, Ireland, Latvia, Lithuania, Poland, Portugal, Romania, Slovakia, Spain, United Kingdom

ResMart

Telephone: 844-738-8806 Web: http://www.resmart.com Availability: North America

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country. Telephone: +32-11-57-95-57 Web: http://www.ultrapolymers.com/ Availability: Belgrup, European Enderstion, Turkey, Ukraine

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