

## 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	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Literature <sup>1</sup>	<ul style="list-style-type: none"> <li>Processing - Injection Molding (English)</li> <li>Technical Datasheet - Chemical Resistance (English)</li> <li>Technical Datasheet (English)</li> </ul>
UL Yellow Card <sup>2</sup>	<ul style="list-style-type: none"> <li>E54705-245053</li> <li>E202194-227958</li> </ul>
Search for UL Yellow Card	<ul style="list-style-type: none"> <li>Sumitomo Chemical Co., Ltd.</li> <li>SUMIPEX®</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Good Flow</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Industrial Applications</li> <li>Stationary Supplies</li> </ul>
UL File Number	<ul style="list-style-type: none"> <li>E54705B</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

### Physical

	Nominal Value Unit	Test Method
Density / Specific Gravity <sup>4</sup>	1.19 g/cm <sup>3</sup>	JIS K7112
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	10 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	72.0 MPa	JIS K7113
Tensile Elongation (Break)	10 %	JIS K7113
Flexural Modulus	3100 MPa	JIS K7203
Flexural Strength	115 MPa	JIS K7203
Flexural Rigidity	6.0 %	JIS K7203

### Impact

	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	1.4 kJ/m <sup>2</sup>	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 <sup>5</sup> 1.8 MPa, Annealed	91.0 °C	JIS K7207
Vicat Softening Temperature	96.0 °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



# SUMIPEX® LG

Polymethyl Methacrylate Acrylic  
Sumitomo Chemical Co., Ltd.

# PROSPECTOR®

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Optical	Nominal Value Unit	Test Method
Refractive Index	1.490	JIS K7105
Light Transmittance <sup>4</sup>	93.0 %	JIS K7105
Haze	< 0.500 %	JIS K7105
Additional Information	Nominal Value Unit	Test Method
Voltage Resistance <sup>6</sup>	20.0 kV/min	JIS K6911
Injection	Nominal Value Unit	
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

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> Method A

<sup>5</sup> VST 25±3, 4 hrs

<sup>6</sup> 60%, 1kHz



## SUMIPEX® LG

Polymethyl Methacrylate Acrylic  
Sumitomo Chemical Co., Ltd.

## PROSPECTOR®

[www.ulprospector.com](http://www.ulprospector.com)

### 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: Belarus, Russian Federation, Turkey, Ukraine

