

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"> Commercial: Active
Literature ¹	<ul style="list-style-type: none"> Processing - Injection Molding (English) Technical Datasheet - Chemical Resistance (English) Technical Datasheet (English)
UL Yellow Card ²	<ul style="list-style-type: none"> E54705-245053 E202194-227959
Search for UL Yellow Card	<ul style="list-style-type: none"> Sumitomo Chemical Co., Ltd. SUMIPEX®
Availability	<ul style="list-style-type: none"> Asia Pacific Europe North America
Features	<ul style="list-style-type: none"> Good Flow
Uses	<ul style="list-style-type: none"> Industrial Applications Stationary Supplies
UL File Number	<ul style="list-style-type: none"> E54705B
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> 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/m ²	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 1.8 MPa, Annealed	90.0 °C	JIS K7207
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



SUMIPEX® LG2

Polymethyl Methacrylate Acrylic
Sumitomo Chemical Co., Ltd.

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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	
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



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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: Belarus, Russian Federation, Turkey, Ukraine

