

Physical Properties of SUMIPEX[®] General Purpose Grade

SUMIPEX[®] LG

Item	Test Method		Unit	Grade LG
	ISO	JIS		
Optical Properties				
Reflective Index	ISO 489	JIS K7142	-	1.49
Total Light Transmission	ISO 13468-1	JIS K7361-1	%	92
Haze	ISO 14782	JIS K7136	%	<0.5
Thermal Properties				
Coefficient of Linear Expansion	ISO 11359-2	JIS K7197	1/°C	7 X 10 ⁻⁵
Vicat Softening Temperature (VST)	ISO 306	JIS K7206 (B50)	°C	96
Deflection Temp. Under Load 1.82 MPa (annealed)	ISO 75-2	JIS K7191 (Af method)	°C	91
Melt Flow Rate (MFR) 230°C, 37.3N (3.8kgf)	ISO 1133	D-1238	g/10min	10
Mechanical Properties				
Tensile Strength at break	ISO 527-2	JIS K7162	MPa	72
Tensile Strain at break	ISO 527-2	JIS K7162	%	3
Flexural Strength	ISO 178	JIS K7171	MPa	115
Flexural Modulus	ISO 178	JIS K7171	MPa	3000
Charpy Impact Strength (notched)	ISO 179-1	JIS K7111	KJ/m ²	1.4
Rockwell Hardness Scale M	ISO 2039-2	JIS K7202	-	94
Electrical Properties				
Surface Resistivity	IEC 60093	JIS K6911	Ω	> 10 ¹⁶
Volume Resistivity	IEC 60093	JIS K6911	Ω cm	> 10 ¹⁵
Insulation Resistance	IEC 60167	JIS K6911	Ω	> 10 ¹⁵
Dielectric Strength	IEC 60243-1	JIS K6911	KV/mm	20
Dielectric Constant (1 MHz)	IEC 60250	JIS K6911	-	3.1
Other Properties				
Specific Gravity	ISO 1183	JIS K7112 (A method)	-	1.19
Mold Shrinkage	ISO 294-4	ASTM D-955	%	0.2-0.6
Water Absorption	ISO 62	JIS K7209	%	0.3
Flammability	UL 94		-	HB

The above data are typical laboratory values and are intended to serve as guides only.

Công ty TNHH Thương Mại Dịch Vụ Toàn Đại Hưng
 Số 9, Đường số 7, Cư Xá Bình Thới, Phường 8, Quận 11, Tp.HCM
 Tel: (028) 39622857 – 39627761 – 39623270
 Fax: 84-28 3962 0989
 E-mail: toandaihung@hcm.fpt.vn
 Website: www.toandaihung.com.vn