

## LG Chemical SG-910 Alphasac Polystyrene (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

High gloss and high impact equivalent to ABS, Excellent mechanical properties compare with general HIPS, Meet requirements for cost and quality, Applications include housing of electric appliances

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-SG-910-Alphasac-Polystyrene-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_LG-Chemical-SG-910-Alphasac-Polystyrene-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	3.7 g/10 min @Load 5.00 kg, Temperature 200 °C	3.7 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	34.0 MPa	4930 psi	50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ASTM D638
Flexural Yield Strength	51.0 MPa	7400 psi	50 mm/min; ASTM D790
Flexural Modulus	2.21 GPa	321 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	1.20 J/cm @Thickness 6.35 mm	2.25 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.40 J/cm @Thickness 3.17 mm	2.62 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C @Thickness 6.35 mm	180 °F @Thickness 0.250 in	Unannealed; ASTM D648
Vicat Softening Point	101 °C	214 °F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/8 in
	HB	HB	1/16 in

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	UL Rating PLC 6 (60-120 sec)
Comparative Tracking Index	>= 600 V	>= 600 V	UL Rating PLC 0 (>600 volts)
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL Rating PLC 3 (15-30 sec)
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL Rating PLC 0 (>120 arcs)
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	UL Rating PLC 1 (10-25.4 mm/min)

## Contact Songhan Plastic Technology Co.,Ltd.

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