

LG Chemical SF-510 Alphas Polystyrene (Unverified Data**)

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

Material Notes:

Super flow, High gloss and high impact equivalent to ABS, Excellent mechanical properties compare with general HIPS, Meet requirements for cost and quality, Applications include TV cabinets, thin part, and high speed injection molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-SF-510-Alphas-Polystyrene-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 200 °C	12 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ASTM D785
Tensile Strength, Yield	28.5 MPa	4130 psi	50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D638
Flexural Yield Strength	45.2 MPa	6560 psi	15 mm/min; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	1.13 J/cm @Thickness 6.35 mm	2.12 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.42 J/cm @Thickness 3.17 mm	2.66 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C @Thickness 12.7 mm	176 °F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	99.0 °C	210 °F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in
	34.0 mm/min	1.34 in/min	

Flame Spread Thermal Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	FH3 Comments
------------------------------------	-------------------------------	---------------------------------	-----------------

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	UL Rating PLC 6 (60-120 sec)
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL Rating PLC 1 (400-600 volts)
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL Rating PLC 3 (15-30 sec)
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL Rating PLC 1 (60-120 arcs)
High Voltage Arc-Tracking Rate, HVTR	<= 10.0 mm/min	<= 0.394 in/min	UL Rating PLC 0 (0-10 mm/min)

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China