

ALPHALAC SG970

High Impact Polystyrene

LG Chem Ltd.

Message:

ALPHALAC SG970 is a high impact polystyrene material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

The main features of ALPHALAC SG970 are:

- flame retardant/rated flame
- high gloss
- Good processability

The typical application fields of ALPHALAC SG970 are: electrical appliances

General Information			
UL YellowCard	E67171-248499		
Features	Highlight		
	Workability, good		
	General		
Uses	Home appliance components		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	35.3	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20mm	> 5.0	%	ASTM D638
Fracture, 3.20mm	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2550	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	53.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	49	J/m	ASTM D256
-30°C, 6.50 mm	39	J/m	ASTM D256
23°C, 3.20 mm	120	J/m	ASTM D256
23°C, 6.40 mm	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	93.0	°C	ASTM D648

1.8 MPa, unannealed, 6.40mm	83.0	°C	ASTM D648
Vicat Softening Temperature	91.0	°C	ASTM D1525 ⁵
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		UL 94
2.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	170 - 190	°C	
Middle Temperature	180 - 200	°C	
Front Temperature	190 - 210	°C	
Nozzle Temperature	190 - 220	°C	
Processing (Melt) Temp	190 - 220	°C	
Mold Temperature	40.0 - 70.0	°C	
Back Pressure	29.4 - 58.8	MPa	
Screw Speed	30 - 60	rpm	
Injection instructions			
Minimum Moisture Content: 0.01%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	15 mm/min		
5.	速率 A (50°C/h), 载荷2 (50N)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

