

ALPHALAC SG970NSU

High Impact Polystyrene

LG Chem Ltd.

Message:

ALPHALAC SG970NSU is a high impact polystyrene material. This product is available in North America, Latin America, Europe or Asia Pacific.

The main features of the ALPHALAC SG970NSU are:

flame retardant/rated flame

high gloss

high strength

Good processability

Antistatic

The typical application fields of ALPHALAC SG970NSU are: electrical appliances

General Information			
Additive	Antistatic property		
	UV stabilizer		
Features	Highlight		
	High strength		
	Antistatic property		
	Workability, good		
	General		
Uses	Home appliance components		
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)	26000	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, 6.40 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
RTI Elec			UL 746
1.50 mm	50.0	°C	UL 746
3.00 mm	50.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	50.0	°C	UL 746
3.00 mm	50.0	°C	UL 746
RTI			UL 746
1.50 mm	50.0	°C	UL 746
3.00 mm	50.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance	PLC 4		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI) (3.00 mm)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746
Hot-wire Ignition (HWI) (3.00 mm)	PLC 3		UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm, ALL	HB		UL 94
3.00 mm, ALL	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)

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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

