

ALPHALAC SG910

High Impact Polystyrene

LG Chem Ltd.

Message:

lphalac of LG chemical is high functionality styrene resin and offers excellent properties and processibility .This product can be accepted as the replacement of general ABS resins.

General Information			
UL YellowCard	E67171-248491	E248280-100041095	
Features	Good Processability		
	High Gloss		
	High Impact Resistance		
Uses	Appliances		
	Housings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	3.7	g/10 min	
220°C/10.0 kg	40	g/10 min	
230°C/3.8 kg	10	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	34.3	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	38	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2230	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	52.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	82.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	HB		
3.18 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	

Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.010	%
Rear Temperature	170 to 190	°C
Middle Temperature	180 to 200	°C
Front Temperature	190 to 210	°C
Nozzle Temperature	190 to 220	°C
Processing (Melt) Temp	190 to 220	°C
Mold Temperature	40.0 to 70.0	°C
Back Pressure	29.4 to 58.8	MPa
Screw Speed	30 to 60	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |
| 4. | 15 mm/min |

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