

LG ABS HI121H

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS HI121H is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

The main features of LG ABS HI121H are:

- flame retardant/rated flame
- High stiffness

Typical application areas include:

- Automotive Industry
- Electrical/electronic applications

General Information			
UL YellowCard	E248280-100213792	E248280-462760	E302314-590434
	E67171-248368		
Features	Rigidity, high		
Uses	Electrical/Electronic Applications		
Processing Method	Injection molding		
Multi-Point Data	Specific Heat vs. Temperature (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Dimensional Stability	0.0	%	ASTM D1042
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2220	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	51.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	2750	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	78	J/m	ASTM D256
-30°C, 6.40 mm	78	J/m	ASTM D256
23°C, 3.20 mm	230	J/m	ASTM D256
23°C, 6.40 mm	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	90.0	°C	ASTM D648

1.8 MPa, unannealed, 6.40mm	86.0	°C	ASTM D648
Vicat Softening Temperature	94.0	°C	ASTM D1525
RTI Elec			UL 746
1.50 mm	95.0	°C	UL 746
3.00 mm	100	°C	UL 746
RTI Imp			UL 746
1.50 mm	95.0	°C	UL 746
3.00 mm	100	°C	UL 746
RTI			UL 746
1.50 mm	95.0	°C	UL 746
3.00 mm	100	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	27	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		UL 746
3.00 mm	PLC 1		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 3		UL 746
Flammability	Nominal Value	Unit	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	180 - 200	°C	
Middle Temperature	190 - 210	°C	
Front Temperature	200 - 220	°C	
Nozzle Temperature	200 - 230	°C	
Processing (Melt) Temp	210 - 240	°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.	1.0 mm/min		

2.	50 mm/min
3.	50 mm/min
4.	15 mm/min
5.	15 mm/min

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