

LG ABS HI121

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS HI121 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of LG ABS HI121 are:

Flame Rated

Impact Resistant

Typical application of LG ABS HI121: Electrical/Electronic Applications

General Information			
UL YellowCard	E248280-100213792	E67171-248368	
Features	High Impact Resistance		
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)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Dimensional Stability	0.0	%	ASTM D1042
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2080	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	45.1	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 3.20 mm)	72.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	130	J/m	
-30°C, 6.40 mm	130	J/m	
23°C, 3.20 mm	340	J/m	
23°C, 6.40 mm	310	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	91.0	°C	
1.8 MPa, Unannealed, 6.40 mm	87.0	°C	
Vicat Softening Temperature	93.0	°C	ASTM D1525 ⁶

RTI Elec			UL 746
1.50 mm	95.0	°C	
3.00 mm	100	°C	
RTI Imp			UL 746
1.50 mm	95.0	°C	
3.00 mm	100	°C	
RTI Str			UL 746
1.50 mm	95.0	°C	
3.00 mm	100	°C	
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		
3.00 mm	PLC 1		
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		
3.00 mm	PLC 3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 220	°C	
Nozzle Temperature	200 to 230	°C	
Processing (Melt) Temp	210 to 240	°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.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		

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