

LG ABS HI100H

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS HI100H 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 HI100H are:

- flame retardant/rated flame
- ROHS certification
- Good toughness
- Impact resistance

Typical application areas include:

- safety equipment
- engineering/industrial accessories
- Water pipes/pipes/drinking water

General Information			
UL YellowCard	E67171-248366		
Features	Ultra high toughness		
	Impact resistance, high		
Uses	Safety helmet		
	Piping system		
	Accessories		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Multi-Point Data	Specific Heat vs. Temperature (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	1690	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	38.2	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	1960	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	61.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	300	J/m	ASTM D256

-30°C, 6.40 mm	280	J/m	ASTM D256
23°C, 3.20 mm	490	J/m	ASTM D256
23°C, 6.40 mm	420	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	89.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	86.0	°C	ASTM D648
Vicat Softening Temperature	93.0	°C	ASTM D1525
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value		Test Method
Flame Rating	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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