

LG ABS HI153

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS HI153 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 HI153 are:

flame retardant/rated flame

high liquidity

good weather resistance

The typical application areas of LG ABS HI153 are: electrical/electronic applications

General Information			
UL YellowCard	E248280-462766	E67171-248370	
Features	High liquidity		
	Good weather resistance		
Uses	Electrical/Electronic Applications		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	48	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)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2430	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	44.1	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	2550	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	74.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	69	J/m	ASTM D256
-30°C, 6.40 mm	69	J/m	ASTM D256
23°C, 3.20 mm	200	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	85.0	°C	ASTM D648
Vicat Softening Temperature	93.0	°C	ASTM D1525 ⁶
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	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
6.	速率 A (50°C/h), 载荷2 (50N)

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