

LG ABS HF380G

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Friday, November 28, 2025

General Information

Product Description

Description

HF380G is an ABS product for injection molding, designed to have extra high fluidity.

Key Features

High Flow

Application

Toys, Electrical/Electronic Products, Miscellaneous Goods

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• High Flow
Uses	• Electrical/Electronic Applications • Toys
Processing Method	• Injection Molding

Properties

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ¹	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	52	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	42.0	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 10	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm, Injection Molded	270	J/m	
23°C, 6.40 mm, Injection Molded	250	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	106		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	85.0	°C	
Vicat Softening Temperature	93.0	°C	ASTM D1525 ⁴
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm		HB	
3.0 mm		HB	

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	70 to 80	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	200 to 250	°C
Mold Temperature	40 to 80	°C
Screw Speed	30 to 60	rpm

Notes

¹ 23°C

² 50 mm/min

³ Edgewise

⁴ Rate A (50°C/h), Loading 2 (50 N)

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