

LG ABS LG703W

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Friday, May 24, 2019

General Information

Product Description

Description

- Low Gloss, Heat Resistance

Applications

- Automobiles Interior Housing (Column Cover, Fillar Etc)

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Good Heat Resistance	• Low Gloss	
Uses	• Automotive Applications	• Automotive Interior Parts	• Housings
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	9.0	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 Modulus ³ (23°C, 3.20 mm, Injection Molded)	2200	MPa	ASTM D638
Tensile Strength ³			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	46.0	MPa	
Tensile Elongation ³			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 10	%	
Flexural Modulus ⁴ (23°C, 3.20 mm, Injection Molded)	2300	MPa	ASTM D790
Flexural Strength ⁴ (23°C, 3.20 mm, Injection Molded)	72.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	100	J/m	
-30°C, 6.40 mm, Injection Molded	90	J/m	
23°C, 3.20 mm, Injection Molded	290	J/m	
23°C, 6.40 mm, Injection Molded	260	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	105		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	90.0	°C	
Vicat Softening Temperature	98.0	°C	ASTM D1525 ⁶
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)		HB	UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	180 to 220	°C
Middle Temperature	200 to 220	°C
Front Temperature	220 to 230	°C
Nozzle Temperature	220 to 230	°C
Processing (Melt) Temp	220 to 250	°C
Mold Temperature	40 to 60	°C
Back Pressure ⁷	0.981 to 2.94	MPa

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C

³ 50 mm/min

⁴ 15 mm/min

⁵ Edgewise

⁶ Rate A (50°C/h), Loading 2 (50 N)

⁷ Hydraulic Type