

# LG ABS XG570

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Friday, May 24, 2019

## General Information

### Product Description

#### Description

- Anti-Scratch, High Impact, High Flow

#### Application

- TV Stand Base, Audio/Video Housing

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Good Scratch Resistance	• High Flow	• High Impact Resistance
Uses	• Electrical Housing	• Electrical/Electronic Applications	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity <sup>2</sup>	1.06	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	22	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 <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	2650	MPa	ASTM D638
Tensile Strength <sup>3</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	49.0	MPa	
Tensile Elongation <sup>3</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 15	%	
Flexural Modulus <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	2850	MPa	ASTM D790
Flexural Strength <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	82.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	60	J/m	
-30°C, 6.40 mm, Injection Molded	60	J/m	
23°C, 3.20 mm, Injection Molded	170	J/m	
23°C, 6.40 mm, Injection Molded	170	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	115		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	88.0	°C	
Vicat Softening Temperature	96.0	°C	ASTM D1525 <sup>5</sup>
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746

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Thermal	Nominal Value	Unit	Test Method
RTI Str	60.0	°C	UL 746

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

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	3.0 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	200 to 230	°C
Mold Temperature	40 to 60	°C
Back Pressure <sup>6</sup>	0.981 to 2.94	MPa
Screw Speed	30 to 60	rpm

#### Injection Notes

Minimum Moisture Content: 0.01%

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 23°C

<sup>3</sup> 50 mm/min

<sup>4</sup> 15 mm/min

<sup>5</sup> Rate A (50°C/h), Loading 2 (50 N)

<sup>6</sup> Hydraulic Type