

## LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Monday, March 7, 2022

General Information				
Product Description				
Description				
High Stiffness				
Application				
<ul> <li>Electric/electronic products</li> </ul>	s, miscellaneous goods			
General				
Material Status	Commercial: Active			
Availability	Asia Pacific	Latin America		
	Europe	North America		
Features	High Stiffness			
Uses	Electrical/Electronic Applications			
Processing Method	Injection Molding			
	ASTM & IS	O Properties <sup>1</sup>		

ASTM & ISC	D Properties <sup>1</sup>		
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity <sup>2</sup>	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	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)	2440	MPa	ASTM D638
Tensile Strength <sup>3</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	51.0	MPa	
Tensile Elongation <sup>3</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	> 5.0	%	
Tensile Elongation <sup>3</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded		%	
Flexural Modulus <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	2750	MPa	ASTM D790
Flexural Strength <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	200	J/m	
-30°C, 6.40 mm, Injection Molded	65	J/m	
23°C, 3.20 mm, Injection Molded	65	J/m	
23°C, 6.40 mm, Injection Molded	200	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	113		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>5</sup>			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	88.0	°C	
Vicat Softening Temperature	95.0	°C	ASTM D1525 6
RTI Elec	60.0	°C	UL 746B

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## LG ABS HT700

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Thermal	Nominal Value Un	it Test Method
RTI Imp	60.0 °C	UL 746B
RTI Str	60.0 °C	UL 746B
Flammability	Nominal Value Un	it Test Method
Flame Rating		UL 94
1.5 mm	HB	
3.0 mm	HB	

Nominal Value 70 to 80	
70 to 80	°C
2.0 to 4.0	hr
180 to 200	<b>°</b> °
190 to 210	<b>°</b> °
200 to 220	<b>°</b> °
200 to 230	<b>°</b> °
210 to 240	<b>°</b> °
40 to 70	<b>°</b> °
0.490 to 1.47	MPa
30 to 60	rpm
	190 to 210 200 to 220 200 to 230 210 to 240 40 to 70 0.490 to 1.47

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> Edgewise

<sup>6</sup> Rate A (50°C/h), Loading 2 (50 N)



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