

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Monday, March 7, 2022

| General Information | | | | |
|--|------------------------------------|---------------------------|--|--|
| Product Description | | | | |
| Description | | | | |
| High Stiffness | | | | |
| Application | | | | |
| Electric/electronic products | 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 ¹ | | |

| ASTM & ISC | D Properties ¹ | | |
|--|---------------------------|-------------------|--------------|
| Physical | Nominal Value | Unit | Test Method |
| Density / Specific Gravity ² | 1.05 | g/cm ³ | 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 ³ (23°C, 3.20 mm, Injection Molded) | 2440 | MPa | ASTM D638 |
| Tensile Strength ³ | | | ASTM D638 |
| Yield, 23°C, 3.20 mm, Injection Molded | 51.0 | MPa | |
| Tensile Elongation ³ | | | ASTM D638 |
| Yield, 23°C, 3.20 mm, Injection Molded | > 5.0 | % | |
| Tensile Elongation ³ | | | ASTM D638 |
| Break, 23°C, 3.20 mm, Injection Molded | | % | |
| Flexural Modulus ⁴ (23°C, 3.20 mm, Injection Molded) | 2750 | MPa | ASTM D790 |
| Flexural Strength ⁴ (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 ⁵ | | | 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 |

UL and the UL logo are trademarks of UL LLC © 2022. All Rights Reserved.



The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

LG ABS HT700

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

| 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 | ° ° |
| 190 to 210 | ° ° |
| 200 to 220 | ° ° |
| 200 to 230 | ° ° |
| 210 to 240 | ° ° |
| 40 to 70 | ° ° |
| 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

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)



The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.