

## Technical Data Sheet

### *Diamond* ABS 3500LG 50603 UV B1.5GRY



Acrylonitrile Butadiene Styrene

#### Product Description

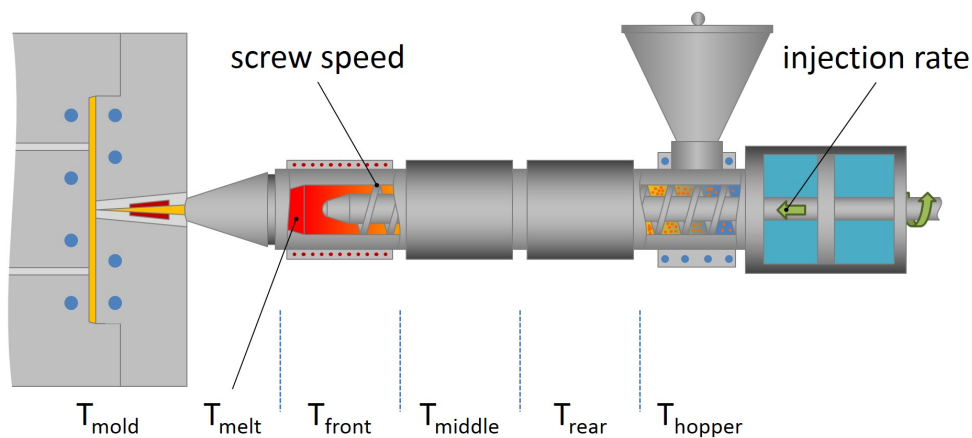
*Diamond* ABS 3500LG 50603 UV B1.5GRY is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications. Features include: Low Gloss, Medium Flow, and Medium Impact Resistance.

#### Regulatory Status

For regulatory compliance information, see ABS 3500LG 50603 UV B1.5GRY [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| <b>Status</b>            | Commercial: Active                               |
| <b>Availability</b>      | North America                                    |
| <b>Processing Method</b> | Injection Molding                                |
| <b>Attribute</b>         | Low Gloss; Medium Flow; Medium Impact Resistance |

| Typical Properties                                                                  | Nominal Value | Units             | Test Method |
|-------------------------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                                     |               |                   |             |
| Melt Flow Rate                                                                      |               |                   |             |
| (200 °C/5.0 kg, Procedure A)                                                        | 2.3           | g/10 min          | ASTM D1238  |
| (230 °C/3.8 kg, Procedure A)                                                        | 6.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                                                          | 1.04          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                                                   |               |                   |             |
| Tensile Strength at Yield, (51 mm/min)                                              | 41.4          | MPa               | ASTM D638   |
| Flexural Modulus, (1.3 mm/min, Tangent)                                             | 2070          | MPa               | ASTM D790   |
| <b>Impact</b>                                                                       |               |                   |             |
| Notched Izod Impact, (23 °C, 3.18 mm)                                               | 250           | J/m               | ASTM D256   |
| <b>Hardness</b>                                                                     |               |                   |             |
| Rockwell Hardness, (R-Scale)                                                        | 104           |                   | ASTM D785   |
| <b>Thermal</b>                                                                      |               |                   |             |
| Vicat Softening Temperature, (Loading 1 (10 N))                                     | 104           | °C                | ASTM D1525  |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm, Injection Molded) | 76.7          | °C                | ASTM D648   |



| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 4.0    | hr    |
| Drying Temperature     | 80 to 85      | °C    |
| Suggested Max Moisture | 0.1           | %     |
| Front Temperature      | 200 to 220    | °C    |
| Middle Temperature     | 200 to 220    | °C    |
| Rear Temperature       | 200 to 220    | °C    |
| Injection Rate         | Slow-Moderate |       |
| Mold Temperature       | 40 to 60      | °C    |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2018

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.