

Diamond ABS 3500LG 50603 UV B1.5GRY

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

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.

General

| | | | |
|-------------------|---------------------|---------------|----------------------------|
| Features | • Low Gloss | • Medium Flow | • Medium Impact Resistance |
| Processing Method | • Injection Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------------------|
| Density / Specific Gravity | 1.04 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ² | | | ASTM D1238 |
| 200°C/5.0 kg | 2.3 | g/10 min | |
| 230°C/3.8 kg | 6.0 | g/10 min | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ³ (Yield) | 6000 | psi | ASTM D638 |
| Flexural Modulus - Tangent ⁴ | 300000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F, 0.125 in) | 4.7 | ft-lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 104 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi, Unannealed, 0.125 in, Injection Molded | 170 | °F | |
| Vicat Softening Temperature | 219 | °F | ASTM D1525 ⁵ |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 176 to 185 | °F |
| Drying Time | 2.0 to 4.0 | hr |
| Suggested Max Moisture | 0.10 | % |
| Rear Temperature | 392 to 428 | °F |
| Middle Temperature | 392 to 428 | °F |
| Front Temperature | 392 to 428 | °F |
| Mold Temperature | 104 to 140 | °F |
| Injection Rate | Slow-Moderate | |