

Diamond ABS 7501 2391GRN

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

Product Description

Diamond ABS 7501 2391GRN is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications. Features include: Ultra High Impact Resistance.

General

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|-------------------|--------------------------------------------------------------------------------|
| Features | <ul style="list-style-type: none"> Ultra High Impact Resistance |
| Forms | <ul style="list-style-type: none"> Pellets |
| Processing Method | <ul style="list-style-type: none"> Injection Molding |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--------------------------------------------------------------------|---------------|----------|-------------------------|
| Density / Specific Gravity | 1.04 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ² (230°C/3.8 kg) | 3.6 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ³ (Yield) | 6190 | psi | ASTM D638 |
| Flexural Modulus - Tangent ⁴ | 286000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F, 0.125 in) | 7.5 | ft-lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 101 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 264 psi, Unannealed, 0.125 in | 171 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Annealed, 0.125 in | 199 | °F | ASTM D648 |
| Vicat Softening Temperature | 217 | °F | ASTM D1525 ⁵ |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.06 in) | HB | | UL 94 |

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 | 374 to 482 | °F |
| Middle Temperature | 374 to 482 | °F |
| Front Temperature | 374 to 482 | °F |
| Mold Temperature | 104 to 176 | °F |
| Injection Rate | Moderate-Fast | |