

OmniTech™ ABS 63

Acrylonitrile Butadiene Styrene

OMNI Plastics, LLC

Message:

High Impact ABS

| General Information | | | |
|--|------------------------|-------------------|-----------------|
| Features | High Impact Resistance | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.05 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | 3.0 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield, 23°C) | 41.4 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 70 | % | ASTM D638 |
| Flexural Modulus | 2280 | MPa | ASTM D790 |
| Flexural Strength | 72.4 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 320 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm) | 87.8 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (3.18 mm) | HB | | Internal Method |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 87.8 | °C | |
| Drying Time | 4.0 | hr | |
| Suggested Max Moisture | 0.020 | % | |
| Rear Temperature | 204 to 249 | °C | |
| Middle Temperature | 216 to 260 | °C | |
| Front Temperature | 216 to 260 | °C | |
| Nozzle Temperature | 216 to 260 | °C | |
| Processing (Melt) Temp | 216 to 260 | °C | |
| Mold Temperature | 26.7 to 60.0 | °C | |
| Back Pressure | 0.345 to 0.689 | MPa | |

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