

Technical Data Sheet

Accutech ABS831G40L

Acrylonitrile Butadiene Styrene
 LyondellBasell Industries
 Engineering Plastics

General

- Filler / Reinforcement
 - Glass Fiber, 40% Filler by Weight
- Forms
 - Pellets

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.35 | 1.35 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 Kg) | 0.50 g/10 min | 0.50 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Modulus | 841000 psi | 5800 MPa | ASTM D638 |
| Tensile Strength | | | ASTM D638 |
| Yield | 11300 psi | 78.0 MPa | |
| Break | 11300 psi | 78.0 MPa | |
| Tensile Elongation | | | ASTM D638 |
| Yield | 2.0 % | 2.0 % | |
| Break | 3.0 % | 3.0 % | |
| Flexural Modulus | 1.52E+6 psi | 10500 MPa | ASTM D790 |
| Flexural Strength | 16000 psi | 110 MPa | ASTM D790 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact | 1.2 ft·lb/in | 64 J/m | ASTM D256 |
| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Rockwell Hardness (R-scale) | 105 | 105 | ASTM D785 |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 Psi (0.45 Mpa), Unannealed | 212 °F | 100 °C | |
| 264 Psi (1.8 Mpa), Unannealed | 198 °F | 92.0 °C | |

Notes

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