Technical Data Sheet

# *Polyman* FSAN 35 GF NAT

Styrene Acrylonitrile

## Product Description

35% glass fibre reinforced SAN grade for parts with high mechanical strength and high dimensional stability

## Regulatory Status

For regulatory compliance information, see *Polyman* FSAN 35 GF NAT Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Discontinued |
| **Availability** | Africa-Middle East; Asia-Pacific; Europe; Latin America |
| **Processing Method** | Injection Molding |
| **Attribute** | Good Dimensional Stability; High Strength |
| **Filler/Reinforcement** | Glass Fiber, 35% |
| **Resin ID** | SAN-GF |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Volume Flow Rate, (220 °C/10.0 kg) | 5.0 | cm³/10 min | ISO 1133 |
| Density, (Method A) | 1.35 | g/cm³ | ISO 1183 |
| **Mechanical** | | | |
| Tensile Strain at Break, (Type 1A, 5 mm/min) | 1.0 | % | ISO 527-2 |
| Tensile Stress at Break, (Type 1A, 5 mm/min) | 96.0 | MPa | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 12500 | MPa | ISO 527-1 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 4.0 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 3.0 | kJ/m² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | 15 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 9.0 | kJ/m² | ISO 179 |
| **Hardness** | | | |
| Ball Indentation Hardness, (H 358/30) | 77.0 | MPa | ISO 2039-1 |
| **Thermal** | | | |
| Vicat Softening Temperature | | | |
| (B (50N), 50 °C/h) | 105 | °C | ISO 306 |
| (A (10N), 50 °C/h) | 112 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 101 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 98.0 | °C | ISO 75-2/A |

## 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/.



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