

# RONFALIN® SAN 4402 GF35 U

Styrene Acrylonitrile  
Engineering Plastics

## Product Description

35% glass fibre reinforced SAN for high strength and dimensional stability, with UV-stabilization. (Former name: POLYMAN FSAN 35 GF UV ST)

## General

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Filler / Reinforcement        | • Glass Fiber, 35% Filler by Weight          |
| Additive                      | • UV Stabilizer                              |
| Features                      | • Good Dimensional Stability • High Strength |
| Processing Method             | • Injection Molding                          |
| Part Marking Code (ISO 11469) | • >SAN-GF<                                   |

| Physical                                        | Nominal Value (English) | Nominal Value (SI) | Test Method          |
|-------------------------------------------------|-------------------------|--------------------|----------------------|
| Density                                         | 1.33 g/cm³              | 1.33 g/cm³         | ISO 1183/A           |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)     | 11 cm³/10min            | 11 cm³/10min       | ISO 1133             |
| Mechanical                                      | Nominal Value (English) | Nominal Value (SI) | Test Method          |
| Tensile Modulus                                 | 1.60E+6 psi             | 11000 MPa          | ISO 527-2/1A/1       |
| Tensile Stress (Break)                          | 14500 psi               | 100 MPa            | ISO 527-2/1A/5       |
| Tensile Strain (Break)                          | 1.7 %                   | 1.7 %              | ISO 527-2/1A/5       |
| Impact                                          | Nominal Value (English) | Nominal Value (SI) | Test Method          |
| Charpy Notched Impact Strength (73°F (23°C))    | 1.9 ft·lb/in²           | 4.0 kJ/m²          | ISO 179/1eA          |
| Charpy Unnotched Impact Strength<br>73°F (23°C) | 9.5 ft·lb/in²           | 20 kJ/m²           | ISO 179/1eU          |
| Hardness                                        | Nominal Value (English) | Nominal Value (SI) | Test Method          |
| Ball Indentation Hardness (H 358/30)            | 11200 psi               | 77.0 MPa           | ISO 2039-1           |
| Thermal                                         | Nominal Value (English) | Nominal Value (SI) | Test Method          |
| Vicat Softening Temperature                     |                         |                    |                      |
| --                                              | 234 °F                  | 112 °C             | ISO 306/A50          |
| --                                              | 217 °F                  | 103 °C             | ISO 306/B50          |
| Electrical                                      | Nominal Value (English) | Nominal Value (SI) | Test Method          |
| Surface Resistivity                             | > 1.0E+15 ohms          | > 1.0E+15 ohms     | IEC 60093            |
| Volume Resistivity                              | > 1.0E+13 ohms·m        | > 1.0E+13 ohms·m   | IEC 62631-3-1        |
| Comparative Tracking Index                      | 600 V                   | 600 V              | IEC 60112            |
| Flammability                                    | Nominal Value (English) | Nominal Value (SI) | Test Method          |
| Burning Rate                                    |                         |                    |                      |
| 0.0787 in (2.00 mm)                             | < 3.9 in/min            | < 100 mm/min       | ISO 3795             |
| 0.0787 in (2.00 mm)                             | < 3.9 in/min            | < 100 mm/min       | FMVSS 302            |
| Flammability Classification                     |                         |                    | IEC 60695-11-10, -20 |
| 0.06 in (1.5 mm)                                | HB                      | HB                 |                      |
| 0.12 in (3.0 mm)                                | HB                      | HB                 |                      |

## Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications



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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Processing (Melt) Temp | 464 to 518 °F           | 240 to 270 °C      |
| Mold Temperature       | 104 to 176 °F           | 40 to 80 °C        |

Notes

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

