

# POLYMAN® FSAN GF 35 K2405

Styrene Acrylonitrile  
Engineering Plastics

## Product Description

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

## General

|                        |                                     |                     |                 |
|------------------------|-------------------------------------|---------------------|-----------------|
| Filler / Reinforcement | • Glass Fiber, 35% Filler by Weight |                     |                 |
| Features               | • Good Dimensional Stability        | • High Stiffness    | • High Strength |
| Uses                   | • Machine/Mechanical Parts          | • Windows & Doors   |                 |
| Processing Method      | • Extrusion                         | • Injection Molding |                 |
| Resin ID (ISO 1043)    | • SAN-GF                            |                     |                 |

| Physical                                     | Nominal Value (English) | Nominal Value (SI) | Test Method    |
|----------------------------------------------|-------------------------|--------------------|----------------|
| Density                                      | 1.37 g/cm³              | 1.37 g/cm³         | ISO 1183/A     |
| Melt Volume-Flow Rate (MVR)                  |                         |                    | ISO 1133       |
| 220°C/10.0 kg                                | 7.00 cm³/10min          | 7.00 cm³/10min     |                |
| 230°C/3.8 kg                                 | 3.00 cm³/10min          | 3.00 cm³/10min     |                |
| Mechanical                                   | Nominal Value (English) | Nominal Value (SI) | Test Method    |
| Tensile Modulus                              | 1.74E+6 psi             | 12000 MPa          | ISO 527-2/1A/1 |
| Tensile Stress (Break)                       | 14500 psi               | 100 MPa            | ISO 527-2/1A/5 |
| Tensile Strain (Break)                       | 1.3 %                   | 1.3 %              | ISO 527-2/1A/5 |
| Flexural Modulus <sup>1</sup>                | 1.74E+6 psi             | 12000 MPa          | ISO 178        |
| Flexural Stress <sup>1</sup> (1.7% Strain)   | 22500 psi               | 155 MPa            | ISO 178        |
| 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             |                         |                    | ISO 179/1eU    |
| 73°F (23°C)                                  | 9.5 ft·lb/in²           | 20 kJ/m²           |                |
| Thermal                                      | Nominal Value (English) | Nominal Value (SI) | Test Method    |
| Heat Deflection Temperature                  |                         |                    | ISO 75-2/Af    |
| 264 psi (1.8 MPa), Unannealed                | 207 °F                  | 97.0 °C            |                |
| Vicat Softening Temperature                  | 216 °F                  | 102 °C             | ISO 306/B50    |
| 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      |

## Additional Information

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

## Notes

<sup>1</sup> 0.079 in/min (2.0 mm/min)

## Notes

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

