

Technical Data Sheet

## Schulamid 66 GF30 FR2 H2

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

### Product Description

30% glass fibre reinforced flame-retardant Polyamide 66 grade; halogen free, electrically neutral heat stabilized

### General

|                        |                                                       |                                     |  |
|------------------------|-------------------------------------------------------|-------------------------------------|--|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight                   |                                     |  |
| Features               | • Electrical Corrosion Resistant<br>• Flame Retardant | • Halogen Free<br>• Heat Stabilized |  |
| Processing Method      | • Injection Molding                                   |                                     |  |
| Resin ID (ISO 1043)    | • PA66 GF30 FR(40)                                    |                                     |  |

| Physical                                        | Nominal Value (English)   | Nominal Value (SI)     | Test Method          |
|-------------------------------------------------|---------------------------|------------------------|----------------------|
| Density                                         | 1.44 g/cm <sup>3</sup>    | 1.44 g/cm <sup>3</sup> | ISO 1183/A           |
| Mechanical                                      | Nominal Value (English)   | Nominal Value (SI)     | Test Method          |
| Tensile Modulus                                 | 1.67E+6 psi               | 11500 MPa              | ISO 527-1/1A         |
| Tensile Stress (Break)                          | 20300 psi                 | 140 MPa                | ISO 527-2/1A         |
| Tensile Strain (Break)                          | 2.4 %                     | 2.4 %                  | ISO 527-2/1A         |
| Impact                                          | Nominal Value (English)   | Nominal Value (SI)     | Test Method          |
| Charpy Notched Impact Strength (73°F (23°C))    | 4.8 ft·lb/in <sup>2</sup> | 10 kJ/m <sup>2</sup>   | ISO 179/1eA          |
| Charpy Unnotched Impact Strength<br>73°F (23°C) | 31 ft·lb/in <sup>2</sup>  | 65 kJ/m <sup>2</sup>   | ISO 179/1eU          |
| Thermal                                         | Nominal Value (English)   | Nominal Value (SI)     | Test Method          |
| Deflection Temperature Under Load               |                           |                        |                      |
| 66 Psi (0.45 Mpa), Unannealed                   | 493 °F                    | 256 °C                 | ISO 75-2/Bf          |
| 264 Psi (1.8 Mpa), Unannealed                   | 468 °F                    | 242 °C                 | ISO 75-2/ Af         |
| Vicat Softening Temperature                     |                           |                        |                      |
| --                                              | 444 °F                    | 229 °C                 | ISO 306/B50          |
| --                                              | 491 °F                    | 255 °C                 | ISO 306/A50          |
| Electrical                                      | Nominal Value (English)   | Nominal Value (SI)     | Test Method          |
| Comparative Tracking Index                      | 600 V                     | 600 V                  | IEC 60112            |
| Flammability                                    | Nominal Value (English)   | Nominal Value (SI)     | Test Method          |
| Burning Rate                                    |                           |                        | ISO 3795             |
| 0.0295 In (0.750 Mm), Self-extinguishing        | 0.0 in/min                | 0.0 mm/min             |                      |
| 0.0591 In (1.50 Mm), Self-extinguishing         | 0.0 in/min                | 0.0 mm/min             |                      |
| 0.118 In (3.00 Mm), Self-extinguishing          | 0.0 in/min                | 0.0 mm/min             |                      |
| Flammability Classification                     |                           |                        | IEC 60695-11-10, -20 |
| 0.030 In (0.75 Mm)                              | V-0                       | V-0                    |                      |
| 0.06 In (1.5 Mm)                                | V-0                       | V-0                    |                      |
| 0.12 In (3.0 Mm)                                | V-0                       | V-0                    |                      |
| Glow Wire Flammability Index                    |                           |                        | IEC 60695-2-12       |
| 0.030 In (0.75 Mm)                              | 1760 °F                   | 960 °C                 |                      |
| 0.06 In (1.5 Mm)                                | 1760 °F                   | 960 °C                 |                      |
| Glow Wire Ignition Temperature                  |                           |                        | IEC 60695-2-13       |
| 0.030 In (0.75 Mm)                              | 1380 °F                   | 750 °C                 |                      |
| 0.06 In (1.5 Mm)                                | 1380 °F                   | 750 °C                 |                      |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 3.0 to 4.0 hr           | 3.0 to 4.0 hr      |
| Suggested Max Moisture | 0.04 to 0.10 %          | 0.04 to 0.10 %     |
| Processing (Melt) Temp | 518 to 572 °F           | 270 to 300 °C      |
| Mold Temperature       | 140 to 212 °F           | 60 to 100 °C       |
| Injection Rate         | Slow-Moderate           | Slow-Moderate      |
| Back Pressure          | 290 to 1160 psi         | 2.00 to 8.00 MPa   |
| Screw Speed            | < 591 in/min            | < 15 m/min         |

### Notes

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