

# Schulamid 66 GF 30

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

## Product Description

30% glass fiber reinforced PA 66

## General

|                               |                                     |
|-------------------------------|-------------------------------------|
| Filler / Reinforcement        | • Glass Fiber, 30% Filler by Weight |
| Processing Method             | • Injection Molding                 |
| Part Marking Code (ISO 11469) | • >PA66-GF<                         |

| Physical                             | Dry                | Conditioned      | Unit                                          | Test Method    |
|--------------------------------------|--------------------|------------------|-----------------------------------------------|----------------|
| Density                              | 1.35               | --               | g/cm <sup>3</sup>                             | ISO 1183/A     |
| Viscosity Number                     | 145                | --               | cm <sup>3</sup> /g                            | ISO 307        |
| Mechanical                           | Dry                | Conditioned      | Unit                                          | Test Method    |
| Tensile Modulus                      | 1.45E+6<br>(10000) | 899000<br>(6200) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)               | 26100<br>(180)     | 16000<br>(110)   | psi<br>(MPa)                                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)               | 3.0                | 6.0              | %                                             | ISO 527-2/1A/5 |
| Impact                               | Dry                | Conditioned      | Unit                                          | Test Method    |
| Charpy Notched Impact Strength       |                    |                  |                                               | ISO 179/1eA    |
| -22°F (-30°C)                        | 3.3<br>(7.0)       | 4.8<br>(10)      | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                          | 4.8<br>(10)        | 8.6<br>(18)      | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Charpy Unnotched Impact Strength     |                    |                  |                                               | ISO 179/1eU    |
| -22°F (-30°C)                        | 29<br>(60)         | 19<br>(40)       | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                          | 38<br>(80)         | 43<br>(90)       | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Notched Izod Impact Strength         |                    |                  |                                               | ISO 180/1A     |
| -40°F (-40°C)                        | 4.8<br>(10)        | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                          | 3.3<br>(7.0)       | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Unnotched Izod Impact Strength       |                    |                  |                                               | ISO 180/1U     |
| -40°F (-40°C)                        | 29<br>(60)         | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                          | 31<br>(65)         | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Hardness                             | Dry                | Conditioned      | Unit                                          | Test Method    |
| Ball Indentation Hardness (H 358/30) | 31900<br>(220)     | --               | psi<br>(MPa)                                  | ISO 2039-1     |



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| Thermal                            | Dry           | Conditioned | Unit               | Test Method    |
|------------------------------------|---------------|-------------|--------------------|----------------|
| Deflection Temperature Under Load  |               |             |                    |                |
| 66 Psi (0.45 Mpa), Unannealed      | 482<br>(250)  | --          | °F<br>(°C)         | ISO 75-2/Bf    |
| 264 Psi (1.8 Mpa), Unannealed      | 482<br>(250)  | --          | °F<br>(°C)         | ISO 75-2/Af    |
| Ball Pressure Test (284°F (140°C)) | Pass          | --          |                    | IEC 60695-10-2 |
| Electrical                         | Dry           | Conditioned | Unit               | Test Method    |
| Surface Resistivity                | > 1.0E+15     | 1.0E+12     | ohms               | IEC 60093      |
| Volume Resistivity                 | > 1.0E+13     | 1.0E+10     | ohms·m             | IEC 62631-3-1  |
| Comparative Tracking Index         | 450           | --          | V                  | IEC 60112      |
| Flammability                       | Dry           | Conditioned | Unit               | Test Method    |
| Burning Rate                       |               |             |                    |                |
| 0.0787 In (2.00 Mm)                | 1.2<br>(30)   | --          | in/min<br>(mm/min) | ISO 3795       |
| 0.0787 In (2.00 Mm)                | 1.2<br>(30)   | --          | in/min<br>(mm/min) | FMVSS 302      |
| Glow Wire Flammability Index       | 1110<br>(600) | --          | °F<br>(°C)         | IEC 60695-2-12 |

### Additional Information

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



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| Injection              | Dry (English)  | Dry (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 | 536 to 572 °F  | 280 to 300 °C  |
| Mold Temperature       | 140 to 248 °F  | 60 to 120 °C   |

Notes

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

