

# Schulamid 6 GBF 3020 K1697

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

## Product Description

30% glass fibre and glass bead reinforced PA 6

## General

|                        |                                                |
|------------------------|------------------------------------------------|
| Filler / Reinforcement | • Glass Bead\Glass Fiber, 30% Filler by Weight |
| Features               | • High Strength • Low Warpage                  |
| Processing Method      | • Injection Molding                            |

| Physical                          | Dry               | Conditioned      | Unit                                          | Test Method    |
|-----------------------------------|-------------------|------------------|-----------------------------------------------|----------------|
| Density                           | 1.34              | --               | g/cm <sup>3</sup>                             | ISO 1183/A     |
| Viscosity Number                  | 147               | --               | cm <sup>3</sup> /g                            | ISO 307        |
| Mechanical                        | Dry               | Conditioned      | Unit                                          | Test Method    |
| Tensile Modulus                   | 1.09E+6<br>(7500) | 616000<br>(4250) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)            | 21500<br>(148)    | 13100<br>(90.0)  | psi<br>(MPa)                                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)            | 4.3               | 10               | %                                             | ISO 527-2/1A/5 |
| Flexural Modulus <sup>1</sup>     | 899000<br>(6200)  | --               | psi<br>(MPa)                                  | ISO 178        |
| Flexural Stress <sup>1</sup>      |                   |                  |                                               | ISO 178        |
| 5.5% Strain                       | 29700<br>(205)    | --               | psi<br>(MPa)                                  |                |
| 3.5% Strain                       | 26800<br>(185)    | --               | psi<br>(MPa)                                  |                |
| Impact                            | Dry               | Conditioned      | Unit                                          | Test Method    |
| Charpy Notched Impact Strength    |                   |                  |                                               | ISO 179/1eA    |
| -22°F (-30°C)                     | 3.4<br>(7.2)      | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 4.5<br>(9.5)      | 9.5<br>(20)      | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Charpy Unnotched Impact Strength  |                   |                  |                                               | ISO 179/1eU    |
| -22°F (-30°C)                     | 26<br>(55)        | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 33<br>(70)        | 46<br>(97)       | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Thermal                           | Dry               | Conditioned      | Unit                                          | Test Method    |
| Deflection Temperature Under Load |                   |                  |                                               |                |
| 66 Psi (0.45 Mpa), Unannealed     | 424<br>(218)      | --               | °F<br>(°C)                                    | ISO 75-2/Bf    |
| 264 Psi (1.8 Mpa), Unannealed     | 379<br>(193)      | --               | °F<br>(°C)                                    | ISO 75-2/Af    |
| Vicat Softening Temperature       | 417<br>(214)      | --               | °F<br>(°C)                                    | ISO 306/B50    |
| Flammability                      | Dry               | Conditioned      | Unit                                          | Test Method    |
| Burning Rate                      |                   |                  |                                               |                |
| 0.0787 In (2.00 Mm)               | < 3.9<br>(< 100)  | --               | in/min<br>(mm/min)                            | ISO 3795       |
| 0.0787 In (2.00 Mm)               | < 3.9<br>(< 100)  | --               | in/min<br>(mm/min)                            | FMVSS 302      |



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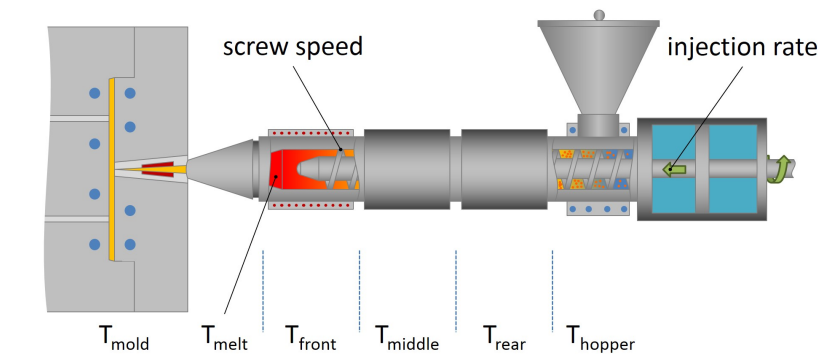
### **Additional Information**

- 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 | 482 to 536 °F  | 250 to 280 °C  |
| Mold Temperature       | 140 to 212 °F  | 60 to 100 °C   |

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.

