

# Schulamid 6 GF 30 GID LS

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

## Product Description

30% glass fiber reinforced Polyamide 6, optimized for GID-processes, UV-stabilized

## General

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight                  |
| Processing Method      | • Gas-Assisted Injection Molding • Injection Molding |

| 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                   | 1.28E+6<br>(8800) | 754000<br>(5200) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)            | 22500<br>(155)    | 13100<br>(90.0)  | psi<br>(MPa)                                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)            | 3.5               | 8.5              | %                                             | ISO 527-2/1A/5 |
| Impact                            | Dry               | Conditioned      | Unit                                          | Test Method    |
| Charpy Notched Impact Strength    |                   |                  |                                               | ISO 179/1eA    |
| -22°F (-30°C)                     | 3.8<br>(8.0)      | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 5.7<br>(12)       | 12<br>(26)       | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Charpy Unnotched Impact Strength  |                   |                  |                                               | ISO 179/1eU    |
| -22°F (-30°C)                     | 35<br>(74)        | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 38<br>(80)        | 45<br>(95)       | 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     | 419<br>(215)      | --               | °F<br>(°C)                                    | ISO 75-2/Bf    |
| 264 Psi (1.8 Mpa), Unannealed     | 383<br>(195)      | --               | °F<br>(°C)                                    | ISO 75-2/Af    |
| 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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| 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

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

