

# Schulamid 6 GF 30 MO1

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

## Product Description

30% glass fiber reinforced PA 6, with molybdenum sulfide for tribological applications

## General

|                        |                                     |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Additive               | • Molybdenum Disulfide Lubricant    |
| Processing Method      | • Injection Molding                 |

| Physical                             | Nominal Value (English)   | Nominal Value (SI)     | Test Method    |
|--------------------------------------|---------------------------|------------------------|----------------|
| Density                              | 1.38 g/cm <sup>3</sup>    | 1.38 g/cm <sup>3</sup> | ISO 1183/A     |
| Mechanical                           | Nominal Value (English)   | Nominal Value (SI)     | Test Method    |
| Tensile Modulus                      | 1.38E+6 psi               | 9500 MPa               | ISO 527-1/1A/1 |
| Tensile Stress (Break)               | 24700 psi                 | 170 MPa                | ISO 527-2/1A/5 |
| Tensile Strain (Break)               | 3.2 %                     | 3.2 %                  | ISO 527-2/1A/5 |
| Flexural Modulus                     | 1.16E+6 psi               | 8000 MPa               | ISO 178        |
| Flexural Stress                      | 34800 psi                 | 240 MPa                | ISO 178        |
| Flexural Strain at Flexural Strength | 4.2 %                     | 4.2 %                  | ISO 178        |
| Impact                               | Nominal Value (English)   | Nominal Value (SI)     | Test Method    |
| Charpy Notched Impact Strength       |                           |                        | ISO 179/1eA    |
| -22°F (-30°C)                        | 3.8 ft·lb/in <sup>2</sup> | 8.0 kJ/m <sup>2</sup>  |                |
| 73°F (23°C)                          | 5.7 ft·lb/in <sup>2</sup> | 12 kJ/m <sup>2</sup>   |                |
| Charpy Unnotched Impact Strength     |                           |                        | ISO 179/1eU    |
| -22°F (-30°C)                        | 29 ft·lb/in <sup>2</sup>  | 60 kJ/m <sup>2</sup>   |                |
| 73°F (23°C)                          | 40 ft·lb/in <sup>2</sup>  | 85 kJ/m <sup>2</sup>   |                |
| Thermal                              | Nominal Value (English)   | Nominal Value (SI)     | Test Method    |
| Deflection Temperature Under Load    |                           |                        |                |
| 66 Psi (0.45 Mpa), Unannealed        | 428 °F                    | 220 °C                 | ISO 75-2/Bf    |
| 264 Psi (1.8 Mpa), Unannealed        | 401 °F                    | 205 °C                 | ISO 75-2/Af    |
| Vicat Softening Temperature          |                           |                        |                |
| --                                   | 414 °F                    | 212 °C                 | ISO 306/B50    |
| --                                   | 424 °F                    | 218 °C                 | ISO 306/A120   |
| Electrical                           | Nominal Value (English)   | Nominal Value (SI)     | Test Method    |
| Comparative Tracking Index           | 450 V                     | 450 V                  | IEC 60112      |
| 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      |



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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 | 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.

