

# SCHULAMID® 6 GF 30 GID

Polyamide 6  
A. Schulman Europe

Message:  
30% glass fiber reinforced Polyamide 6, optimized for GID-processes

| General Information              |      |                                                     |                    |                |
|----------------------------------|------|-----------------------------------------------------|--------------------|----------------|
| Filler / Reinforcement           |      | Glass Fiber,30% Filler by Weight                    |                    |                |
| Features                         |      | Good Processability                                 |                    |                |
|                                  |      | Good Toughness                                      |                    |                |
|                                  |      | High Stiffness                                      |                    |                |
|                                  |      | Oil Resistant                                       |                    |                |
|                                  |      | Outstanding Surface Finish                          |                    |                |
| Processing Method                |      | Gas-Assisted Injection Molding<br>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                  | 8800 | 5200                                                | MPa                | ISO 527-2/1A/1 |
| Tensile Stress (Break)           | 155  | 90.0                                                | 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    |
| -30°C                            | 8.0  | --                                                  | kJ/m <sup>2</sup>  |                |
| 23°C                             | 12   | 26                                                  | kJ/m <sup>2</sup>  |                |
| Charpy Unnotched Impact Strength |      |                                                     |                    | ISO 179/1eU    |
| -30°C                            | 74   | --                                                  | kJ/m <sup>2</sup>  |                |
| 23°C                             | 80   | 95                                                  | kJ/m <sup>2</sup>  |                |
| Thermal                          | Dry  | Conditioned                                         | Unit               | Test Method    |
| Heat Deflection Temperature      |      |                                                     |                    |                |
| 0.45 MPa, Unannealed             | 215  | --                                                  | °C                 | ISO 75-2/Bf    |
| 1.8 MPa, Unannealed              | 195  | --                                                  | °C                 | ISO 75-2/Af    |

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