

# SCHULAMID® 6 GF 35

Polyamide 6  
A. Schulman Europe

Message:  
35% glass fiber reinforced Polyamide 6

| General Information                  |                      |                                  |                    |                   |
|--------------------------------------|----------------------|----------------------------------|--------------------|-------------------|
| UL YellowCard                        |                      | E344659-100854527                | E86615-252159      | E188844-102210959 |
| Filler / Reinforcement               |                      | Glass Fiber,35% Filler by Weight |                    |                   |
| Features                             |                      | Good Flow                        |                    |                   |
|                                      |                      | High Stiffness                   |                    |                   |
|                                      |                      | High Strength                    |                    |                   |
|                                      |                      | Oil Resistant                    |                    |                   |
| UL File Number                       |                      | E86615                           |                    |                   |
| Processing Method                    |                      | Injection Molding                |                    |                   |
| Resin ID (ISO 1043)                  |                      | PA6-GF35                         |                    |                   |
| Physical                             | Dry                  | Conditioned                      | Unit               | Test Method       |
| Density                              | 1.41                 | --                               | g/cm <sup>3</sup>  | ISO 1183/A        |
| Viscosity Number                     | 145                  | --                               | cm <sup>3</sup> /g | ISO 307           |
| Hardness                             | Dry                  | Conditioned                      | Unit               | Test Method       |
| Ball Indentation Hardness (H 358/30) | 230                  | --                               | MPa                | ISO 2039-1        |
| Mechanical                           | Dry                  | Conditioned                      | Unit               | Test Method       |
| Tensile Modulus                      | 11000                | 7000                             | MPa                | ISO 527-2/1A/1    |
| Tensile Stress (Break)               | 180                  | 110                              | MPa                | ISO 527-2/1A/5    |
| Tensile Strain (Break)               | 3.4                  | 6.0                              | %                  | ISO 527-2/1A/5    |
| Impact                               | Dry                  | Conditioned                      | Unit               | Test Method       |
| Charpy Notched Impact Strength       |                      |                                  |                    | ISO 179/1eA       |
| -30°C                                | 10                   | --                               | kJ/m <sup>2</sup>  |                   |
| 23°C                                 | 15                   | 32                               | kJ/m <sup>2</sup>  |                   |
| Charpy Unnotched Impact Strength     |                      |                                  |                    | ISO 179/1eU       |
| -30°C                                | 70                   | --                               | kJ/m <sup>2</sup>  |                   |
| 23°C                                 | 90 kJ/m <sup>2</sup> | No Break                         |                    |                   |
| Thermal                              | Dry                  | Conditioned                      | Unit               | Test Method       |
| Heat Deflection Temperature          |                      |                                  |                    |                   |
| 0.45 MPa, Unannealed                 | 220                  | --                               | °C                 | ISO 75-2/Bf       |
| 1.8 MPa, Unannealed                  | 210                  | --                               | °C                 | ISO 75-2/Af       |

|                              |           |             |         |                      |
|------------------------------|-----------|-------------|---------|----------------------|
| Vicat Softening Temperature  | 210       | --          | °C      | ISO 306/B50          |
| Ball Pressure Test (150°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·cm | IEC 60093            |
| Comparative Tracking Index   | 450       | --          | V       | IEC 60112            |
| Flammability                 | Dry       | Conditioned | Unit    | Test Method          |
| Burning Rate                 | < 100     | --          | mm/min  | ISO 3795             |
| Flammability Classification  |           |             |         | IEC 60695-11-10, -20 |
| 1.50 mm                      | HB        | --          |         |                      |
| 3.00 mm                      | HB        | --          |         |                      |
| Glow Wire Flammability Index |           |             |         | IEC 60695-2-12       |
| 1.50 mm                      | --        | 650         | °C      |                      |
| 3.00 mm                      | --        | 650         | °C      |                      |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

