

# SCHULAMID® 6 GF 30 HI K1871

Polyamide 6  
A. Schulman Europe

Message:  
30% glass fiber reinforced high impact Polyamide 6, customer specific grade

| General Information                    |      |                                  |                   |                |
|----------------------------------------|------|----------------------------------|-------------------|----------------|
| UL YellowCard                          |      | E86615-463199                    |                   |                |
| Filler / Reinforcement                 |      | Glass Fiber,30% Filler by Weight |                   |                |
| Features                               |      | Good Flow                        |                   |                |
|                                        |      | Good Toughness                   |                   |                |
|                                        |      | High Strength                    |                   |                |
|                                        |      | Impact Modified                  |                   |                |
|                                        |      | Oil Resistant                    |                   |                |
| UL File Number                         |      | E86615                           |                   |                |
| Processing Method                      |      | Injection Molding                |                   |                |
| Physical                               | Dry  | Conditioned                      | Unit              | Test Method    |
| Density                                | 1.31 | --                               | g/cm <sup>3</sup> | ISO 1183/A     |
| Water Absorption<br>(Saturation, 23°C) | 1.9  | --                               | %                 | ISO 62         |
| Mechanical                             | Dry  | Conditioned                      | Unit              | Test Method    |
| Tensile Modulus                        | 8300 | 5000                             | MPa               | ISO 527-2/1A/1 |
| Tensile Stress (Break)                 | 135  | 85.0                             | MPa               | ISO 527-2/1A/5 |
| Tensile Strain (Break)                 | 4.0  | 9.0                              | %                 | ISO 527-2/1A/5 |
| Impact                                 | Dry  | Conditioned                      | Unit              | Test Method    |
| Charpy Notched Impact Strength         |      |                                  |                   | ISO 179/1eA    |
| -30°C                                  | 12   | --                               | kJ/m <sup>2</sup> |                |
| 23°C                                   | 18   | 30                               | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength       |      |                                  |                   | ISO 179/1eU    |
| -30°C                                  | 78   | --                               | kJ/m <sup>2</sup> |                |
| 23°C                                   | 85   | 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                    | 200  | --                               | °C                | ISO 75-2/Af    |
| Vicat Softening Temperature            |      |                                  |                   |                |
| --                                     | 220  | --                               | °C                | ISO 306/A50    |

|                              |           |             |         |                      |
|------------------------------|-----------|-------------|---------|----------------------|
| --                           | 205       | --          | °C      | ISO 306/B50          |
| Electrical                   | Dry       | Conditioned | Unit    | Test Method          |
| Surface Resistivity          | > 1.0E+15 | --          | ohms    | IEC 60093            |
| Volume Resistivity           | > 1.0E+13 | --          | ohms·cm | IEC 60093            |
| Comparative Tracking Index   | 550       | --          | 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 | 650       | --          | °C      | IEC 60695-2-12       |

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