

# SCHULAMID® 66 GF 25 H

Polyamide 66

A. Schulman Europe

## Message:

25% glass fiber reinforced, heat stabilized Polyamide 66

| General Information                     |       |                                  |                    |                |
|-----------------------------------------|-------|----------------------------------|--------------------|----------------|
| UL YellowCard                           |       | E344659-100854528                | E86615-252182      |                |
| Filler / Reinforcement                  |       | Glass Fiber,25% Filler by Weight |                    |                |
| Features                                |       | Good Heat Aging Resistance       |                    |                |
|                                         |       | Medium Viscosity                 |                    |                |
|                                         |       | Oil Resistant                    |                    |                |
| UL File Number                          |       | E86615                           |                    |                |
| Processing Method                       |       | Injection Molding                |                    |                |
| Physical                                | Dry   | Conditioned                      | Unit               | Test Method    |
| Density                                 | 1.32  | --                               | g/cm <sup>3</sup>  | ISO 1183/A     |
| Water Absorption<br>(Saturation, 23°C)  | 1.9   | --                               | %                  | ISO 62         |
| Viscosity Number                        | 145   | --                               | cm <sup>3</sup> /g | ISO 307        |
| Hardness                                | Dry   | Conditioned                      | Unit               | Test Method    |
| Ball Indentation Hardness<br>(H 358/30) | 200   | --                               | MPa                | ISO 2039-1     |
| Mechanical                              | Dry   | Conditioned                      | Unit               | Test Method    |
| Tensile Modulus                         | 9000  | 5500                             | MPa                | ISO 527-2/1A/1 |
| Tensile Stress (Break)                  | 160   | 105                              | MPa                | ISO 527-2/1A/5 |
| Tensile Strain (Break)                  | 3.0   | 7.0                              | %                  | 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                                    | 9.0   | 14                               | kJ/m <sup>2</sup>  |                |
| Charpy Unnotched Impact Strength        |       |                                  |                    | ISO 179/1eU    |
| -30°C                                   | 50    | --                               | kJ/m <sup>2</sup>  |                |
| 23°C                                    | 55    | 90                               | kJ/m <sup>2</sup>  |                |
| Thermal                                 | Dry   | Conditioned                      | Unit               | Test Method    |
| Heat Deflection Temperature             |       |                                  |                    |                |
| 0.45 MPa, Unannealed                    | > 250 | --                               | °C                 | ISO 75-2/Bf    |
| 1.8 MPa, Unannealed                     | 242   | --                               | °C                 | ISO 75-2/ Af   |

|                              |           |             |         |                          |
|------------------------------|-----------|-------------|---------|--------------------------|
| Vicat Softening Temperature  | > 250     | --          | °C      | ISO 306/A50, ISO 306/B50 |
| Ball Pressure Test (120°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     |
| 0.750 mm                     | HB        | --          |         |                          |
| 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      |                          |

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