

# SCHULAMID® 66 GF 15 H

Polyamide 66  
A. Schulman Europe

Message:  
15% glass fiber reinforced, heat stabilized Polyamide 66

| General Information                             |      |                                  |                   |                |
|-------------------------------------------------|------|----------------------------------|-------------------|----------------|
| UL YellowCard                                   |      | E86615-252178                    | E188844-102210967 |                |
| Filler / Reinforcement                          |      | Glass Fiber,15% Filler by Weight |                   |                |
| Features                                        |      | Good Heat Aging Resistance       |                   |                |
|                                                 |      | Good Surface Finish              |                   |                |
|                                                 |      | Medium Viscosity                 |                   |                |
|                                                 |      | Oil Resistant                    |                   |                |
| UL File Number                                  |      | E86615                           |                   |                |
| Processing Method                               |      | Injection Molding                |                   |                |
| Physical                                        | Dry  | Conditioned                      | Unit              | Test Method    |
| Density                                         | 1.23 | --                               | g/cm³             | ISO 1183/A     |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 2.2  | --                               | %                 | ISO 62         |
| Viscosity Number                                | 140  | --                               | cm³/g             | ISO 307        |
| Hardness                                        | Dry  | Conditioned                      | Unit              | Test Method    |
| Ball Indentation Hardness<br>(H 358/30)         | 170  | 110                              | MPa               | ISO 2039-1     |
| Mechanical                                      | Dry  | Conditioned                      | Unit              | Test Method    |
| Tensile Modulus                                 | 6200 | 3600                             | MPa               | ISO 527-2/1A/1 |
| Tensile Stress (Break)                          | 120  | 75.0                             | MPa               | ISO 527-2/1A/5 |
| Tensile Strain (Break)                          | 3.0  | 12                               | %                 | ISO 527-2/1A/5 |
| Flexural Modulus                                | 4900 | --                               | MPa               | ISO 178        |
| Flexural Stress                                 | 165  | --                               | MPa               | ISO 178        |
| Flexural Strain at Flexural<br>Strength         | 4.0  | --                               | %                 | ISO 178        |
| Impact                                          | Dry  | Conditioned                      | Unit              | Test Method    |
| Charpy Notched Impact<br>Strength               |      |                                  |                   | ISO 179/1eA    |
| -30°C                                           | 5.0  | --                               | kJ/m²             |                |
| 23°C                                            | 6.0  | 9.0                              | kJ/m²             |                |
| Charpy Unnotched Impact<br>Strength             |      |                                  |                   | ISO 179/1eU    |
| -30°C                                           | 28   | --                               | kJ/m²             |                |
| 23°C                                            | 30   | 70                               | kJ/m²             |                |
| Thermal                                         | Dry  | Conditioned                      | Unit              | Test Method    |

|                              |           |             |         |                      |
|------------------------------|-----------|-------------|---------|----------------------|
| Heat Deflection Temperature  |           |             |         |                      |
| 0.45 MPa, Unannealed         | > 250     | --          | °C      | ISO 75-2/Bf          |
| 1.8 MPa, Unannealed          | 235       | --          | °C      | ISO 75-2/Af          |
| Vicat Softening Temperature  |           |             |         |                      |
| --                           | > 250     | --          | °C      | ISO 306/A50          |
| --                           | 245       | --          | °C      | ISO 306/B50          |
| Ball Pressure Test (110°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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