

# SCHULAMID® 6 MKF 3010 H

Polyamide 6  
A. Schulman Europe

Message:  
30% glass fiber and mineral reinforced Polyamide 6; heat stabilized

| General Information              |       |                                    |                    |                |
|----------------------------------|-------|------------------------------------|--------------------|----------------|
| Filler / Reinforcement           |       | Glass\Mineral,30% Filler by Weight |                    |                |
| Features                         |       | Good Heat Aging Resistance         |                    |                |
|                                  |       | Good Surface Finish                |                    |                |
|                                  |       | Low Warpage                        |                    |                |
|                                  |       | Oil Resistant                      |                    |                |
| Processing Method                |       | 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                  | 6000  | 4500                               | MPa                | ISO 527-2/1A/1 |
| Tensile Stress (Break)           | 100   | 60.0                               | MPa                | ISO 527-2/1A/5 |
| Tensile Strain (Break)           | 3.5   | 5.0                                | %                  | ISO 527-2/1A/5 |
| Impact                           | Dry   | Conditioned                        | Unit               | Test Method    |
| Charpy Notched Impact Strength   |       |                                    |                    | ISO 179/1eA    |
| -30°C                            | 4.0   | --                                 | kJ/m <sup>2</sup>  |                |
| 23°C                             | 6.0   | 10                                 | kJ/m <sup>2</sup>  |                |
| Charpy Unnotched Impact Strength |       |                                    |                    | ISO 179/1eU    |
| -30°C                            | 35    | --                                 | kJ/m <sup>2</sup>  |                |
| 23°C                             | 40    | 58                                 | kJ/m <sup>2</sup>  |                |
| Thermal                          | Dry   | Conditioned                        | Unit               | Test Method    |
| Heat Deflection Temperature      |       |                                    |                    |                |
| 0.45 MPa, Unannealed             | 210   | --                                 | °C                 | ISO 75-2/Bf    |
| 1.8 MPa, Unannealed              | 175   | --                                 | °C                 | ISO 75-2/Af    |
| Vicat Softening Temperature      |       |                                    |                    |                |
| --                               | 220   | --                                 | °C                 | ISO 306/A50    |
| --                               | 215   | --                                 | °C                 | ISO 306/B50    |
| 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 | -- |                      |

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