

## Technical Data Sheet



# Schulamid 6 MKF 3010 H

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

### Product Description

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

### General

|                        |                                                 |                                  |                 |
|------------------------|-------------------------------------------------|----------------------------------|-----------------|
| Material Status        | • Commercial: Active                            |                                  |                 |
| Availability           | • Africa & Middle East<br>• Asia Pacific        | • Europe<br>• Latin America      | • North America |
| Filler / Reinforcement | • Glass Fiber/Mineral, 30% Filler by Weight     |                                  |                 |
| Features               | • Good Surface Finish<br>• Heat Aging Resistant | • Low Warpage<br>• Oil Resistant |                 |
| Processing Method      | • Injection Molding                             |                                  |                 |

| Physical                          | Dry              | Conditioned      | Unit                                          | Test Method    |
|-----------------------------------|------------------|------------------|-----------------------------------------------|----------------|
| Density                           | 1.35             | --               | g/cm <sup>3</sup>                             | ISO 1183/A     |
| Water Absorption                  |                  |                  |                                               | ISO 62         |
| Equilibrium, 73°F (23°C), 50% RH  | 1.7              | --               | %                                             |                |
| Viscosity Number                  | 145              | --               | cm <sup>3</sup> /g                            | ISO 307        |
| Mechanical                        | Dry              | Conditioned      | Unit                                          | Test Method    |
| Tensile Modulus                   | 870000<br>(6000) | 653000<br>(4500) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)            | 14500<br>(100)   | 8700<br>(60.0)   | psi<br>(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    |
| -22°F (-30°C)                     | 1.9<br>(4.0)     | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 2.9<br>(6.0)     | 4.8<br>(10)      | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Charpy Unnotched Impact Strength  |                  |                  |                                               | ISO 179/1eU    |
| -22°F (-30°C)                     | 17<br>(35)       | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 19<br>(40)       | 28<br>(58)       | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Thermal                           | Dry              | Conditioned      | Unit                                          | Test Method    |
| Deflection Temperature Under Load |                  |                  |                                               |                |
| 66 psi (0.45 MPa), Unannealed     | 410<br>(210)     | --               | °F<br>(°C)                                    | ISO 75-2/Bf    |
| 264 psi (1.8 MPa), Unannealed     | 347<br>(175)     | --               | °F<br>(°C)                                    | ISO 75-2/Af    |
| Vicat Softening Temperature       |                  |                  |                                               |                |
| --                                | 419<br>(215)     | --               | °F<br>(°C)                                    | ISO 306/B50    |
| --                                | 428<br>(220)     | --               | °F<br>(°C)                                    | ISO 306/A50    |
| 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·m                                        | IEC 62631-3-1  |

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| Flammability                | Dry              | Conditioned | Unit               | Test Method             |
|-----------------------------|------------------|-------------|--------------------|-------------------------|
| Burning Rate                |                  |             |                    |                         |
| 0.0787 in (2.00 mm)         | < 3.9<br>(< 100) | --          | in/min<br>(mm/min) | ISO 3795                |
| 0.0787 in (2.00 mm)         | < 3.9<br>(< 100) | --          | in/min<br>(mm/min) | FMVSS 302               |
| Flammability Classification |                  |             |                    | IEC 60695-11-10,<br>-20 |
| 0.06 in (1.5 mm)            | HB               | --          |                    |                         |
| 0.12 in (3.0 mm)            | HB               | --          |                    |                         |

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| Injection              | Dry (English)  | Dry (SI)       |
|------------------------|----------------|----------------|
| Drying Temperature     | 176 °F         | 80 °C          |
| Drying Time            | 3.0 to 4.0 hr  | 3.0 to 4.0 hr  |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Processing (Melt) Temp | 482 to 536 °F  | 250 to 280 °C  |
| Mold Temperature       | 140 to 212 °F  | 60 to 100 °C   |

### Notes

These are typical property values not to be construed as specification limits.

### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

### Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

### Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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