Technical Data Sheet

# *Schulamid* 6 GB15 U BLK968077

Polyamide 6

**Product Description**

15% glass bead reinforced Polyamide 6 compound, UV-stabilized

| | |
|---|---|
| **Processing Method** | Injection Molding |
| **Filler/Reinforcement** | Glass Bead, 15% |
| **Resin ID** | PA6-GB |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Density, (Method A) | 1.23 | g/cm³ | ISO 1183 |
| Viscosity Number | 145 | cm³/g | ISO 307 |
| **Mechanical** | | | |
| Tensile Strain at Break | | | |
| (Type 1A, 5 mm/min) | 9.0 | % | ISO 527-2 |
| (Type 1A, 5 mm/min) - Conditioned | >50 | % | ISO 527-2 |
| Tensile Stress at Break | | | |
| (Type 1A, 5 mm/min) | 72.0 | MPa | ISO 527-2 |
| (Type 1A, 5 mm/min) - Conditioned | 42.0 | MPa | ISO 527-2 |
| Tensile Modulus | | | |
| (1 mm/min, Type 1A) | 3400 | MPa | ISO 527-1 |
| (1 mm/min, Type 1A) - Conditioned | 950 | MPa | ISO 527-1 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 5.0 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 3.5 | kJ/m² | ISO 179 |
| (23 °C, Type 1, Edgewise, Notch A) - Conditioned | 16 | kJ/m² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | 45 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 26 | kJ/m² | ISO 179 |
| (23 °C, Type 1, Edgewise) - Conditioned | No Break | | ISO 179 |
| **Thermal** | | | |
| Vicat Softening Temperature | | | |
| (B (50N), 50 °C/h) | 192 | °C | ISO 306 |
| (A (10N), 50 °C/h) | 210 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 165 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 60.0 | °C | ISO 75-2/A |

| Flammable | | | |
|---|---|---|---|
| Burning Rate | | | |
| (2.00 mm) | 60 | mm/min | FMVSS 302 |
| (2.00 mm) | 60 | mm/min | ISO 3795 |

| Injection Parameters | Nominal Value | Units |
|---|---|---|
| Drying Time | 3.0 to 4.0 | hr |
| Drying Temperature | 80 | °C |
| Suggested Max Moisture | 0.040 to 0.10 | % |
| Processing (Melt) Temp | 250 to 280 | °C |
| Mold Temperature | 60 to 100 | °C |