# SCHULAMID® 6 GB 30

Polyamide 6

A. Schulman Europe

## Message:

30% glass bead reinforced Polyamide 6 with higher stiffness and dimension stability

| General Information | | | | |
|---|---|---|---|---|
| UL YellowCard | E86615-252148 | E188844-102210951 | | |
| Filler / Reinforcement | Glass Bead,30% Filler by Weight | | | |
| Features | Good Dimensional Stability<br>Good Surface Finish<br>Low Warpage<br>Oil Resistant | | | |
| UL File Number | E86615 | | | |
| Processing Method | Injection Molding | | | |
| Resin ID (ISO 1043) | PA6-GB30 | | | |
| **Physical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Density | 1.36 | -- | g/cm³ | ISO 1183/A |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 2.2 | -- | % | ISO 62 |
| Viscosity Number | 145 | -- | cm³/g | ISO 307 |
| **Hardness** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Ball Indentation Hardness (H 358/30) | 165 | 105 | MPa | ISO 2039-1 |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus | 4000 | 1200 | MPa | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 70.0 | 34.0 | MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 10 | 50 | % | ISO 527-2/1A/5 |
| Flexural Modulus | 3000 | -- | MPa | ISO 178 |
| Flexural Stress | 100 | -- | MPa | ISO 178 |
| Flexural Strain at Flexural Strength | 6.5 | -- | % | ISO 178 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -30°C | 3.0 | -- | kJ/m² | |
| 23°C | 5.0 | 14 | kJ/m² | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -30°C | 28 | -- | kJ/m² | |
| 23°C | 35 kJ/m² | No Break | | |

| Thermal | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Heat Deflection Temperature | | | | |
| 0.45 MPa, Unannealed | 180 | -- | °C | ISO 75-2/Bf |
| 1.8 MPa, Unannealed | 68.0 | -- | °C | ISO 75-2/Af |
| Vicat Softening Temperature | | | | |
| -- | 215 | -- | °C | ISO 306/A50 |
| -- | 200 | -- | °C | ISO 306/B50 |
| Ball Pressure Test (105°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 |
| 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 | |



## Recommended distributors for this material

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