

Technical Data Sheet

Schuladur A3 GF30 K2224 F BLK968001

Polybutylene Terephthalate + ASA

Product Description

30% glass fibre reinforced, warpage optimized PBT/ASA compound providing high surface quality

| | |
|-----------------------------|----------------------------------|
| Processing Method | Injection Molding |
| Attribute | Good Surface Finish; Low Warpage |
| Filler/Reinforcement | Glass Fiber, 30% |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------------|----------------|
| Physical | | | |
| Melt Volume Flow Rate, (250 °C/5.0 kg) | 25 | cm ³ /10 min | ISO 1133 |
| Density, (Method A) | 1.42 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Strain at Break, (Type 1A, 5 mm/min) | 2.5 | % | ISO 527-2 |
| Tensile Stress at Break, (Type 1A, 5 mm/min) | 118 | MPa | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 9300 | MPa | ISO 527-1 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 9.0 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 8.0 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | 50 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 48 | kJ/m ² | ISO 179 |
| Hardness | | | |
| Ball Indentation Hardness, (H 961/30) | 184 | MPa | ISO 2039-1 |
| Ball Pressure Test, (200 °C) | Pass | | IEC 60695-10-2 |
| Thermal | | | |
| Vicat Softening Temperature | | | |
| (B (50N), 50 °C/h) | 145 | °C | ISO 306 |
| (A (10N), 50 °C/h) | 210 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 214 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 180 | °C | ISO 75-2/A |
| Electrical | | | |
| Volume Resistivity | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| Comparative Tracking Index (CTI) | 400 | V | IEC 60112 |
| Surface Resistivity | >1.0E+15 | ohm | IEC 60093 |

Flammable

| | | | |
|---------------------------------------|-----|--------|----------------|
| Burning Rate | | | |
| (2.00 mm) | 30 | mm/min | ISO 3795 |
| (2.00 mm) | 30 | mm/min | FMVSS 302 |
| Glow Wire Flammability Index | | | |
| (1.5 mm) | 700 | °C | IEC 60695-2-12 |
| (3.0 mm) | 750 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature | | | |
| (1.5 mm) | 725 | °C | IEC 60695-2-13 |
| (3.0 mm) | 775 | °C | IEC 60695-2-13 |
| Oxygen Index | 20 | % | ISO 4589-2 |

UL Information

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|------------------------------------|----|--|----------------------|
| Flammability Classification | | | |
| (1.5 mm) | HB | | IEC 60695-11-10, -20 |
| (3.0 mm) | HB | | IEC 60695-11-10, -20 |

| Injection Parameters | Nominal Value | Units |
|-----------------------------|----------------------|--------------|
| Drying Time | 2.0 to 4.0 | hr |
| Drying Temperature | 100 | °C |
| Suggested Max Moisture | 0.05 | % |
| Processing (Melt) Temp | 250 to 260 | °C |
| Mold Temperature | 60 to 90 | °C |