

Product Description

16% Glass Fiber, ABS

General Considerations

| | | |
|---------------------|---------------------|-------------|
| Resin ID (ISO 1043) | · ABS GF16 | |
| Additive | · | |
| Processing | · Injection Molding | · Extrusion |
| Color | · Black | |
| Data | · | |

| Physical | Value | Unit | Method |
|-----------------------------------|------------|---------|-----------|
| Density / Specific Gravity | 1,22 | | ISO 1183 |
| Mold Shrinkage | | % | ISO 294-4 |
| Parallel | 0,1 to 0,3 | | |
| Normal | 0,2 to 0,4 | | |
| Water Absorption | | % | ISO 62 |
| Saturation (Water at 23°C) | 0,3 to 0,5 | | |
| Melt Mass-Flow Rate - 220°C; 10kg | 5 to 15 | g/10min | ISO 1133 |

| Mechanical | Dry | 50%RH | Unit | Method |
|------------------------------|-------|-------|------|-------------|
| Yield Stress (50 mm/min) | 76 | | MPa | ISO 527-1-2 |
| Yield Strain (50 mm/min) | 3,8 | | % | ISO 527-1-2 |
| Flexural Strength (2mm/min) | 110,4 | | MPa | |
| Flexural Modulus (2mm/min) | 5347 | | MPa | |
| Izod Impact Strength | | | J/m | ISO 180/1U |
| 23°C | 255 | | | |
| Izod Notched Impact Strength | | | J/m | ISO 180/1A |
| 23°C | 93 | | | |

| Thermal | Value | Unit | Method |
|-----------------------------|-------|------|------------|
| Heat Deflection Temperature | | °C | ISO 75-1-2 |
| 0,45 MPa | 102,2 | | |
| 1,80 MPa | 98,5 | | |
| Vicat Softening Temperature | | °C | ISO 306 |
| 50 N ; 120°C/h | 101 | | |

| Process | Value | Unit | Method |
|-----------------------------|------------|----------|--------|
| Molding Process Temperature | 210 to 240 | °C | -- |
| Mold Temperature | 60 to 90 | °C | -- |
| Drying | 80/4 | °C/Hours | -- |

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