



CP06-N0035

Nylon 6

17% Glass Fiber Reinforcement, Ultra High Impact Modified, Heat Stabilized

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| Physical | Method | Typical Value | Units |
|-----------------------------|----------|---------------|-------------------|
| Density @ 23°C | ISO 1183 | 1.17 | g/cm ³ |
| Mold Shrink, Flow: 0.125 in | ISO 2577 | 0.005 | in/in |

Impact

| | | | |
|----------------------------|------------|-----|-----------------------|
| Notched Izod Impact @ 23°C | ISO 180/1A | 9.5 | ft-lb/in ² |
|----------------------------|------------|-----|-----------------------|

Mechanical

| | | | |
|--------------------|-------------|---------|-----|
| Tensile Strength | ISO 527-2/5 | 12,300 | psi |
| Tensile Elongation | ISO 527-2/5 | 3.5 | % |
| Flexural Modulus | ISO 178/A | 600,000 | psi |

Thermal

| | | | |
|-----------------------------------|------------|-----|----|
| Deflection Temperature Under Load | | | |
| 66 psi | ISO 75-2/B | 201 | °C |
| 264 psi | ISO 75-2/A | 172 | °C |

Information provided is based on typical values from reliable procedures. Values are based on natural or black materials unless otherwise noted. No guarantees or warranties of any kind are expressed or implied. Users are responsible for determining the suitability of the product for their intended application.

Recommended Processing Parameters

| | |
|-------------------------------|-----------------|
| Drying Temperature | 180°F |
| Drying Time | 2.0 - 4.0 Hours |
| Rear Temperature | 500 - 535 °F |
| Middle Temperature | 510 - 545 °F |
| Front Temperature | 520 - 555 °F |
| Nozzle Temperature | 520 - 555 °F |
| Processing (Melt) Temperature | 520 - 555 °F |
| Mold Temperature | 170 - 200 °F |

CPPT recommended processing parameters are meant to serve as guidelines only and are not intended to be used for specification purposes. Conditions should be adjusted to optimize material performance with the equipment part design and tooling.