

EN-1316 B NC001
Product Description

30% glass fiber reinforced, halogen-free flame retardant injection grade modified PA6

Application field

The product has high mechanical properties, good fluidity, excellent thermal stability and good appearance, and is mainly used in the automotive and electrical and electronic fields.

Typical performance

| Test item | Test condition | Test standard | Unit | Reference |
|-----------------------------------------------|--------------------|----------------|-------------------|-----------|
| basic properties | | | | |
| Density | 23°C | ISO 1183 | g/cm ³ | 1.38 |
| Water absorption | Water, 23°C, 24h | ISO 62 | % | 1.40 |
| Mechanical behavior | | | | |
| Tensile Strength | 5mm/min | ISO 527-1/-2 | MPa | 100 |
| Elongation at break | 5mm/min | ISO 527-1/-2 | % | 3.0 |
| Bending strength | 2mm/min | ISO 178 | MPa | 165 |
| Bending strength | 2mm/min | ISO 178 | MPa | 6500 |
| Simply supported beam notched impact strength | 23°C | ISO 179/1eA | KJ/m ² | 5.0 |
| Thermal performance | | | | |
| Heat distortion temperature | 80*10*4mm, 1.80MPa | ISO 11357-1/-3 | °C | 185 |
| Melting point | DSC, 10°C/min | ISO 75-1/-2 | °C | 220 |
| Flame retardant properties | | | | |
| Flame retardancy | 1.6mm | UL94 | Class | V-2 |
| Glow Wire Burn Index | 2.0mm | IEC 60695-2-12 | °C | 960 |
| Electrical properties | | | | |
| Relative tracking index | 3mm | IEC 60112 | V | 550 |
| Recommended processing conditions | | | | |
| Drying temperature | Hot water drying | | °C | 105~120 |
| Drying time | | | h | 4~8 |
| Injection temperature | | | °C | 235~265 |
| Mold temperature | | | °C | 60~100 |
| Processing moisture | | | % | ≤0.1 |

Note: This typical physical property is not a sales specification