

Nylene® 5233 HS

Polyamide 6
Custom Resins Group

Message:

33% glass fiber reinforced heat stabilized nylon 6 injection molding resin.
High heat and chemical resistance inherent in nylon type resins, along with higher strength and stiffness due to glass fiber reinforcement.
Excellent surface appearance when processed in a warm mold.
Suitable for brackets, levers, handles, enclosures, and other applications where high physical properties combined with good appearance are required.
The ASTM line call out for this product is D4066 PA022G33

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,33% Filler by Weight | | |
| Additive | Heat Stabilizer | | |
| Features | Good Chemical Resistance | | |
| | Heat Stabilized | | |
| | High Heat Resistance | | |
| | High Stiffness | | |
| | High Strength | | |
| | Pleasing Surface Appearance | | |
| Uses | Handles | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.37 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.50 to 0.70 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 162 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 9310 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 110 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 210 | °C | ASTM D648 |
| Peak Melting Temperature | 216 | °C | ASTM D3418 |

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