

InStruc® PA66GB30

Americhem - Polyamide 66

General Information

Product Description

30% GLASS BEAD FILLED NYLON 6/6

General

| | |
|------------------------|--|
| Material Status | • Commercial: Active |
| Availability | <ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific • Europe • Latin America • North America |
| Filler / Reinforcement | • Glass Bead, 30% Filler by Weight |
| Features | • Filled • Good Dimensional Stability |
| Uses | <ul style="list-style-type: none"> • Automotive Applications • Closures • Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Household Goods • Housings • Industrial Applications • Industrial Parts • Office Automation Equipment • Outdoor Applications • Window & Door Components |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|----------------------------------|----------------|----------|-------------|
| Density / Specific Gravity | 1.36 | | ASTM D792 |
| Molding Shrinkage - Flow | 0.013 to 0.017 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.90 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 650000 | psi | ASTM D638 |
| Tensile Strength | 11000 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 4.0 to 5.0 | % | ASTM D638 |
| Flexural Modulus | 600000 | psi | ASTM D790 |
| Flexural Strength | 18500 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (0.125 in) | 0.80 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (0.125 in) | 4.5 | ft·lb/in | ASTM D4812 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 175 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 500 to 575 | °F |
| Mold Temperature | 150 to 200 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |

