

Chemlon® 220 G

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 220 G is a Polyamide 6 (Nylon 6) material filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 220 G are:

Good Processability

Good Toughness

High Strength

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Features | Good Processability | | |
| | Good Toughness | | |
| | High Strength | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.33 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.50 | % | ASTM D955 |
| Water Absorption (24 hr) | 1.2 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 131 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 3.5 | % | ASTM D638 |
| Flexural Modulus | 5690 | MPa | ASTM D790 |
| Flexural Strength (Yield) | 193 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 91 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 204 | °C | ASTM D648 |
| Melting Temperature | 216 | °C | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 65.6 to 82.2 | °C | |
| Suggested Max Moisture | 0.20 | % | |
| Rear Temperature | 271 | °C | |
| Middle Temperature | 266 | °C | |
| Front Temperature | 249 | °C | |
| Nozzle Temperature | 249 | °C | |

| | | |
|--------------------|--------------|-----|
| Mold Temperature | 60.0 to 93.3 | °C |
| Injection Pressure | 34.5 to 138 | MPa |
| Screw Speed | 60 to 120 | rpm |

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