

Chemlon® 125-15 MG

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 125-15 MG is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber and 25% mineral. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 125-15 MG are:

- Good Dimensional Stability
- Good Processability
- Good Toughness
- High Strength
- Rigid

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,15% Filler by Weight | | |
| | Mineral,25% Filler by Weight | | |
| Features | Good Dimensional Stability | | |
| | Good Processability | | |
| | Good Toughness | | |
| | High Rigidity | | |
| | High Strength | | |
| | Low Warpage | | |
| Appearance | Black | | |
| | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.42 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.50 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.70 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 117 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.0 | % | ASTM D638 |
| Flexural Modulus | 7240 | MPa | ASTM D790 |
| Flexural Strength | 183 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 59 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 245 | °C | ASTM D648 |

| Melting Temperature | 254 | °C |
|------------------------|---------------|------|
| Injection | Nominal Value | Unit |
| Drying Temperature | 65.6 to 82.2 | °C |
| Suggested Max Moisture | 0.20 | % |
| Rear Temperature | 293 | °C |
| Middle Temperature | 282 | °C |
| Front Temperature | 277 | °C |
| Nozzle Temperature | 277 | °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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