

# Chemlon® 109-14 G

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 109-14 G is a Polyamide 66 (Nylon 66) material filled with 14% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 109-14 G are:

- Creep Resistant
- Good Stiffness
- Good Toughness
- Impact Resistant
- Lubricated

| General Information                                     |                                  |       |             |
|---|----------------------------------|-------|-------------|
| Filler / Reinforcement                                  | Glass Fiber,14% Filler by Weight |       |             |
| Additive  | Lubricant                        |       |             |
| Features  | Good Creep Resistance            |       |             |
|   | Good Impact Resistance           |       |             |
|   | Good Stiffness                   |       |             |
|   | Good Toughness                   |       |             |
|   | Lubricated                       |       |             |
| Appearance  | Natural Color                    |       |             |
| Forms   | Pellets                          |       |             |
| Processing Method                                       | Injection Molding                |       |             |
| Physical  | Nominal Value                    | Unit  | Test Method |
| Specific Gravity  | 1.19                             | g/cm³ | ASTM D792   |
| Mechanical  | Nominal Value                    | Unit  | Test Method |
| Tensile Strength (23°C)                                 | 82.7                             | MPa   | ASTM D638   |
| Tensile Elongation (Break, 23°C)                        | 7.0                              | %     | ASTM D638   |
| Flexural Modulus (23°C)                                 | 3240                             | MPa   | ASTM D790   |
| Flexural Strength (23°C)                                | 110                              | MPa   | ASTM D790   |
| Impact  | Nominal Value                    | Unit  | Test Method |
| Notched Izod Impact (23°C)                              | 160                              | J/m   | ASTM D256   |
| Thermal   | Nominal Value                    | Unit  | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 246                              | °C    | ASTM D648   |
| Melting Temperature                                     | 254                              | °C    |             |

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