Monday, May 11, 2026

# Electrafil® PA12 CF13 L

## Techmer Polymer Modifiers - *Polyamide 12*

Units SI

**Action** **Legend (Open)**

## General Information

| General | |
|---|---|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Carbon Fiber, 13% Filler by Weight |
| Additive | • Lubricant |
| Features | • Electrically Conductive • Lubricated |
| Appearance | • Black |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.08 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.60 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.20 | % | ASTM D570 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break) | 103 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 7240 | MPa | ASTM D790 |
| Flexural Strength | 152 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C, 3.18 mm) | 53 | J/m | ASTM D256 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 115 | | ASTM D785 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 160 | °C | ASTM D648 |
| CLTE - Flow | 4.9E-5 | cm/cm/°C | ASTM D696 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 1.0E+2 to 1.0E+6 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+2 to 1.0E+6 | ohms·cm | ASTM D257 |

## Notes

[1] Typical properties: these are not to be construed as specifications.

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