

## Teknor Apex Chemlon® 253-15 GHIU Nylon 6, 15% Glass Fiber Reinforced

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Nylon 6 \(PA6\)](#); [Nylon 6, 20% Glass Fiber Filled](#)

**Material Notes:** 253-15 GHIU is a 15% glass fiber reinforced, impact modified nylon 6 that offers good mechanical performance coupled with good surface finish. It is heat & UV stabilized so that the good mechanical performance and surface appearance is maintained when exposed to high service temperature and weathering resistance. Color change after 2500 kj/m<sup>3</sup> exposure (SAE J1960) <3 Delta E

**Availability:** Europe

**Fillers/Reinforcement:** Glass Fiber, 15% Filler by Weight

**Additive:** Heat Stabilizer; Impact Modifier; UV Stabilizer

**Features:** Good Surface Finish; Heat Stabilized; Impact Modified; Light Stabilized; Weather Resistant

**Processing Method:** Injection Molding

Information provided by Teknor Apex

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	2.2 %	2.2 %	50% RH; ISO 62
Linear Mold Shrinkage	0.0080 - 0.015 cm/cm	0.0080 - 0.015 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	95.1 MPa	13800 psi	ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Elongation at Yield	3.0 %	3.0 %	ISO 527-2
Flexural Strength	125 MPa	18100 psi	ISO 178
Flexural Modulus	4.00 GPa	580 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.20 ft-lb/in <sup>2</sup>	ISO 180/1A

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Dielectric Strength	11.0 kV/mm @Thickness 3.00 mm	280 kV/in @Thickness 0.118 in	IEC 60243-1
Comparative Tracking Index	500 V	500 V	IEC 60112

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.8 µm/m-°C	31.0 µin/in-°F	
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	Unannealed; ISO 72-2/B
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	Unannealed; ISO 72-2/A
Oxygen Index	22 %	22 %	ISO 4589-2

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 270 °C	464 - 518 °F	
Middle Barrel Temperature	240 - 270 °C	464 - 518 °F	
Front Barrel Temperature	240 - 270 °C	464 - 518 °F	
Melt Temperature	240 - 270 °C	464 - 518 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2.00 hour	2.00 hour	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.