

**Chemlon® 102**

PA66

Teknor Apex Co.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.01</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.016</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength	<b>89.6</b>	MPa	ASTM D 638
Elongation at Yield	<b>4.5</b>	%	ASTM D 638
Elongation at Break	<b>7</b>	%	ASTM D 638
Flexural Modulus	<b>3103</b>	MPa	ASTM D 790
Flexural Strength	<b>117</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>53.4</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-2</b>	-	UL 94
Thickness tested	<b>0.762</b>	mm	-
DTUL @ 264 psi	<b>90.6</b>	°C	ASTM D 648
Melting Temperature	<b>257</b>	°C	ASTM D 3418
Limiting Oxygen Index	<b>27</b>	%	ASTM D 2863

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>17</b>	kV/mm	ASTM D 149
Volume Resistivity	<b>1010</b>	Ohm*cm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water Absorption, 24hr	<b>1.3</b>	%	ASTM D 570
Density	<b>1140</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Features**

Nucleated

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive