

**PPS TS501**

PPS-GF50

Toyobo Co., Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.002</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0085</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Modulus	<b>18640</b>	MPa	ASTM D 638
Tensile Strength	<b>200</b>	MPa	ASTM D 638
Flexural Modulus	<b>14710</b>	MPa	ASTM D 790
Flexural Strength	<b>281</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 123</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>93.2</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Coefficient of Thermal Expansion, MD	<b>7</b>	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	<b>61</b>	E-6/K	ASTM D 696
DTUL @ 264 psi	<b>260</b>	°C	ASTM D 648
<b>Electrical properties</b>			
<b>ISO Data</b>			
Comparative tracking index	<b>165</b>	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>12</b>	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	<b>0.0014</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>3.8</b>	-	ASTM D 150
Volume Resistivity	<b>1E16</b>	Ohm*cm	ASTM D 257
Arc Resistance	<b>133</b>	s	ASTM D 495
<b>Other properties</b>			
Water Absorption, 24hr	<b>0.02</b>	%	ASTM D 570
Density	<b>1750</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Special Characteristics**

Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific