

**HiFill PPS 0231 B LE**

PPS-Z

TP Composites, Inc.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.003</b>	mm/mm	ASTM D 955
Density	<b>2310</b>	kg/m <sup>3</sup>	ASTM D 792
Water Absorption, 24hr	<b>0.02</b>	%	ASTM D 570

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength	<b>131</b>	MPa	ASTM D 638
Flexural Modulus	<b>12410.5</b>	MPa	ASTM D 790
Flexural Strength	<b>179</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R100</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>0.0587</b>	kJ/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-0</b>	-	UL 94
Thickness tested	<b>0.381</b>	mm	-
Coefficient of Thermal Expansion, MD	<b>16.2</b>	E-6/K	ASTM D 696
DTUL @ 66 psi	<b>280</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>266</b>	°C	ASTM D 648

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>20.9</b>	kV/mm	ASTM D 149
Volume Resistivity	<b>1E15</b>	Ohm*cm	ASTM D 257

**Characteristics****Chemical Resistance**

Radiation Resistance

**Regional Availability**

North America

**Ecological valuation**

Food contact, Food approval FDA 21 CFR

