

**VLF 82309 A**

TPU-GF50

RTP Company

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.0015</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 Modulus	<b>12410</b>	MPa	ASTM D 638
Tensile Strength	<b>234</b>	MPa	ASTM D 638
Flexural Modulus	<b>12410</b>	MPa	ASTM D 790
Flexural Strength	<b>345</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>480</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>HB</b>	-	UL 94
Thickness tested	<b>1.59</b>	mm	-
DTUL @ 264 psi	<b>113</b>	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1600</b>	kg/m <sup>3</sup>	ASTM D 792
Moisture Content	<b>0.01</b>	%	-

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>107</b>	°C	-
Pre-drying - Time	<b>6</b>	h	-
Melt temperature	<b>221 - 243</b>	°C	-
Mold temperature	<b>51.7 - 93.3</b>	°C	-
Injection pressure	<b>68.9 - 103</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific