

**FPC 38**

PP

Federal Plastics Corp.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>30</b>	g/10min	ASTM D 1238
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>35.2</b>	MPa	ASTM D 638
Elongation at Yield	<b>8</b>	%	ASTM D 638
Flexural Modulus	<b>1448</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R119</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>48</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-2</b>	-	UL 94
Thickness tested	<b>1.57</b>	mm	-
Coefficient of Thermal Expansion, MD	<b>79.2</b>	E-6/K	ASTM D 696
Melting Temperature	<b>215</b>	°C	ASTM D 3418
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>20.1</b>	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	<b>0.01</b>	-	ASTM D 150
Dissipation Factor, 1 MHz	<b>0.02</b>	-	ASTM D 150
Dielectric Constant, 60 Hz	<b>3.9</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>3.4</b>	-	ASTM D 150
Arc Resistance	<b>84</b>	s	ASTM D 495
<b>Other properties</b>			
Density	<b>905</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America