

**FPC 505**

(PE-HD)

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>0.3</b>	g/10min	ASTM D 1238

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>26.9</b>	MPa	ASTM D 638
Elongation at Yield	<b>60</b>	%	ASTM D 638
Elongation at Break	<b>850</b>	%	ASTM D 638
Izod Impact notched, 1/8 in	<b>214</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-0</b>	-	UL 94
Thickness tested	<b>1.57</b>	mm	-
Coefficient of Thermal Expansion, MD	<b>75.6</b>	E-6/K	ASTM D 696
Max. Service Temp., Intermittent	<b>116</b>	°C	ASTM D 2485

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>23.6</b>	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	<b>0.005</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>3.4</b>	-	ASTM D 150

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>953</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Regional Availability**

North America