

**FPC 41**

(PE-LD)

Federal Plastics Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	1.2	g/10min	ASTM D 1238

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	1586	MPa	ASTM D 638
Tensile Strength at Yield	14.5	MPa	ASTM D 638
Elongation at Break	590	%	ASTM D 638

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	1.57	mm	-
Coefficient of Thermal Expansion, MD	79.2	E-6/K	ASTM D 696
DTUL @ 264 psi	91.1	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	20.1	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.01	-	ASTM D 150
Dissipation Factor, 1 MHz	0.02	-	ASTM D 150
Dielectric Constant, 60 Hz	3.9	-	ASTM D 150
Dielectric Constant, 1 MHz	3.5	-	ASTM D 150
Arc Resistance	122	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	918	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America