

FPC 44

(PE-LD)

Federal Plastics Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	8	g/10min	ASTM D 1238

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	8.96	MPa	ASTM D 638
Elongation at Yield	550	%	ASTM D 638
Flexural Modulus	1310	MPa	ASTM D 790
Rockwell Hardness	M80	-	ASTM D 785
Izod Impact notched, 1/8 in	58.7	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	3.18	mm	-
Coefficient of Thermal Expansion, MD	79.2	E-6/K	ASTM D 696
DTUL @ 264 psi	108	°C	ASTM D 648
Melting Temperature	165	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ASTM Data			
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	118	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	917	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Regional Availability

North America