

FPC 743

PC

Federal Plastics Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Mechanical properties			
ASTM Data			
Tensile Modulus	2344	MPa	ASTM D 638
Tensile Strength at Yield	59.3	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2344	MPa	ASTM D 790
Flexural Strength	93.8	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69.4	J/m	ASTM D 256
Thermal properties			
ASTM Data			
Thickness tested	3.18	mm	-
Coefficient of Thermal Expansion, MD	37.8	E-6/K	ASTM D 696
DTUL @ 66 psi	204	°C	ASTM D 648
DTUL @ 264 psi	199	°C	ASTM D 648
Limiting Oxygen Index	38	%	ASTM D 2863
Electrical properties			
ASTM Data			
Dielectric Strength, Short Time	18.5	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.002	-	ASTM D 150
Dissipation Factor, 1 MHz	0.004	-	ASTM D 150
Dielectric Constant, 60 Hz	3.2	-	ASTM D 150
Dielectric Constant, 1 MHz	3.1	-	ASTM D 150
Other properties			
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Additives

Flame retarding agent