

FPC 510

(PE-HD)

Federal Plastics Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	9	g/10min	ASTM D 1238
Mechanical properties			
ASTM Data			
Tensile Strength at Yield	29.6	MPa	ASTM D 638
Elongation at Break	280	%	ASTM D 638
Izod Impact notched, 1/8 in	181	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	3.18	mm	-
Coefficient of Thermal Expansion, MD	63	E-6/K	ASTM D 696
DTUL @ 66 psi	229	°C	ASTM D 648
DTUL @ 264 psi	218	°C	ASTM D 648
Melting Temperature	232	°C	ASTM D 3418
Max. Service Temp., Intermittent	87.8	°C	ASTM D 2485
Max. Service Temp., Continuous	87.8	°C	ASTM D 2485
Thermal Conductivity, solid state	0.187	W/(m K)	ASTM C 177
Limiting Oxygen Index	15.7	%	ASTM D 2863
Electrical properties			
ASTM Data			
Dielectric Strength, Short Time	39.4	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.06	-	ASTM D 150
Dielectric Constant, 60 Hz	3.5	-	ASTM D 150
Optical properties			
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	92	%	ASTM D 1003
Index of Refraction	1.49	-	ASTM D 542
Other properties			
Density	955	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Regional Availability

North America