

FPC 42

(PE-LD)

Federal Plastics Corp.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	2.5	g/10min	ASTM D 1238

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	8.27	MPa	ASTM D 638
Elongation at Yield	300	%	ASTM D 638
Rockwell Hardness	R118	-	ASTM D 785
Izod Impact notched, 1/8 in	283	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	34	E-6/K	ASTM D 696
DTUL @ 264 psi	116	°C	ASTM D 648
Melting Temperature	181	°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, 1 MHz	0.0075	-	ASTM D 150
Dielectric Constant, 1 MHz	2.55	-	ASTM D 150
Arc Resistance	75	s	ASTM D 495

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

Characteristics**Processing**

Injection Molding

Regional Availability

North America