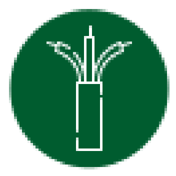
PlastMate by GC

InnoPlus by GC

Wires and Cables

Construction

Power Cable Segment



Fiber Optic Cable

High Density Polyethylene Black Compound Resin			
Properties	**TestMethod**	**Unit**	**Plastmate HD00108WBK**
Physical and Mechanical Properties			
Melt Index (190 °C, 2.16 Kg)	ISO 1133	g/10 min	0.16
Density	ISO 1183	g/cm³	0.958
Carbon Black Content	ISO 6964	%	2.5
Tensile Strength	ISO 527	MPa	33
Elongation at Break	ISO 527	%	900
Oxidation Induction Time (210 °C)	ISO 11357	Min	70
ESCR, F0 (Condition B, 10% Igepal, 50 °C)	ASTM D1693	Hrs	> 5,000
Flexural Modulus	ISO 178	MPa	800
Durometer Hardness	ISO 868	Shore D	64
Electrical Properties			
Volume Resistivity	ASTM D257	Ohm.cm	1.00E+17
Dielectric Strength	ASTM D149	kV/mm	27
Dielectric Constant, 1 MHz	ASTM D150	-	2.4
Dissipation Factor, 1 MHz	ASTM D150	-	0.0003

Recommendation: Recommended melt temperature 180-230 °C

Medium Density Polyethylene Black Compound Resin			
Properties	**Test Method**	**Unit**	**Plastmate MD00801WBK**
Physical Properties			
Melt Index(190 °C, 2.16 Kg)	ISO 1133	g/10 min	0.8
Density	ISO 1183	g/cm³	0.948
Carbon Black Content	ISO 6964	%	2.5
Tensile Strength at Break	ISO 527	MPa	28
Elongation at Break	ISO 527	%	800
Flexural Modulus	ISO 178	MPa	560
Durometer Hardness	ISO 868	Shore D	58
Oxidation Induction Time (210 °C)	ISO 11357	Min	70
ESCR (50 °C, 10% Igepal, FO)	ASTM D1693	Hrs	> 5,000
Electrical Properties			
DC Volume Resistivity	ASTM D257	Ohm.cm	1.00E+16
Dielectric Strength	ASTM D149	kV/mm	36
Dielectric Constant, 1 MHz	ASTM D150	-	2.5
Dissipation Factor, 1 MHz	ASTM D150	-	0.0006

Recommendation: Recommended melt temperature 180-220 °C

InnoPlus: LLDPE Natural Resin				
Properties	**Test Method**	**Unit**	**Wires and Cables**	
			LL6420A	**LL6428A**
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	2	2.8
Density	ASTM D792	g/cm³	0.918	0.918
Tensile Strength at Yield	ASTM D638	MPa	10	10
Tensile Strength at Break	ASTM D638	MPa	25	24
Elongation at Break	ASTM D638	%	900	940
Secant Modulus	ASTM D638	MPa	200	230
Vicat Softening Point	ASTM D1525	°C	97	95
Durometer Hardness	ASTM D2240	Shore D	47	47
Volume Resistivity (500V)	ASTM D257	ohm.cm	2.00E+15	2.00E+15
Dielectric Strength (500V/sec)	ASTM D149	kV/mm	25	25
Dielectric Constant (60 Hz)	ASTM D150	-	2.2	2.2
Dielectric Factor (60 Hz)	ASTM D150	-	0.003	0.003