MD00801WBK

Medium density polyethylene compound resin

Special Characteristics : PlastMate MD00801WBK is black medium density polyethylene compound with excellent weathering and UV resistance by well-dispersed of high-quality carbon black.

Typical Applications : Fiber optic cable jacketing and medium voltage power cable jacketing

International Standard : ASTM D1248 (Type III, Class C, Category 4)*, IEC 60502-2 (ST7)**

*PlastMate MDPE MD00801WBK meets the following raw materials specifications.

**Cable jacketing covered with PlastMate MDPE MD00801WBK using sound commercial extrusion practices and testing procedures, should meet the following cable specification.

Typical Properties :

Properties	MD00801WBK	Unit	Test Method
Physical Properties			
Melt Index(190˚C, 2.16 Kg)	0.8	g/10 min	ISO 1133
Density	0.948	g/cm^3	ISO 1183
Carbon Black Content	2.5	%	ISO 6964
Tensile Strength at Break	28	MPa	ISO 527
Elongation at Break	800	%	ISO 527
Flexural Modulus	560	MPa	ISO 178
Durometer Hardness	58	Shore D	ISO 868
Oxidation Induction Time (210˚C)	70	Min	ISO 11357
ESCR (50 C, 10% Igepal, F0)	> 5,000	Hrs	ASTM D1693
Electrical Properties			
DC Volume Resistivity	10^{16}	Ohm.cm	ASTM D257
Dielectric Strength	36	kV/mm	ASTM D149
Dielectric Constant, 1 MHz	2.5	-	ASTM D150
Dissipation Factor, 1 MHz	0.0006	-	ASTM D150

Recommendation :
Recommended melt temperature 180 – 220˚C