

# 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
<b>Physical Properties</b>			
Melt Index(190°C, 2.16 Kg)	0.8	g/10 min	ISO 1133
Density	0.948	g/cm <sup>3</sup>	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
<b>Electrical Properties</b>			
DC Volume Resistivity	10 <sup>16</sup>	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

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**Note :** Properties reported here are typical values of the product, not to be considered as specifications.

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