



## APP-LDPE BI9304 (Black) Insulation and Jacket Application

### Product Description

**APP- BI9304** is LDPE compound with black color that has excellent mechanical and abrasion resistance properties. It has a strong ability to environment stress crack resistance and thermal stress crack resistance.

### Typical Application

LDPE wire & cable grade is mainly used for producing communication cable jacket and it is used for sheeting communication cables.

General Properties	Unit	Typical Value	Test Method
Melt Index (190°C/2.16 kg)	gr/10min	0.345	ASTM D-1238
Density	g/cm <sup>3</sup>	0.930	ISO 1183
Melting Point	°C	110.64	ASTM D-3418
OIT @200°C	Min.	23.17	ASTM D-3895
ESCR	hr	>25	ASTM D-1693
Tensile sheet STS@yield	Mpa	9.44	ASTM D-882
Tensile sheet STS@break	Mpa	12.8	ASTM D-882
Tensile sheet STN@yield	%	29.1	ASTM D-882
Tensile sheet STN@break	%	496	ASTM D-882
Carbon black dispersion homogeneity	----	2.5	ISO18553
Carbon black content		1.8	ISO6964
Dielectric Constant at 1 MHZ	----	2.1	ASTM D-150
Dissipation Factor at 1 MHZ	----	0.006	ASTM D-150
Dielectric Strength	Kv/mm	25	ASTM D-140
DC Volume Resistivity at 23°C	Ohms.cm	10 <sup>15</sup>	ASTM D-257