



## APP-HDPE NI 4010 (Natural) Insulation and Jacket Application

### Product Description

APP- NI4010 is HDPE compound with natural 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

HDPE wire & cable grade is mainly used for producing communication cable jacket and it is used for Insulating of telephone single wire at high speed (up to 2500 m/min).

General Properties	Unit	Typical Value	Test Method
Melt Index (190°C/2.16 kg)	gr/10min	0.13	ASTM D-1238
Density	g/cm <sup>3</sup>	0.9437	ISO 1183
Melting Point	°C	131.54	ASTM D-3418
OIT @210°C	Min.	44.42	ASTM D-3895
ESCR	hr	>50	ASTM D-1693
Tensile sheet STS@yield	Mpa	20.1	ASTM D-882
Tensile sheet STS@break	Mpa	17.8	ASTM D-882
Tensile sheet STN@yield	%	21.1	ASTM D-882
Tensile sheet STN@break	%	637	ASTM D-882
Dielectric Constant at 1 MHZ	----	2.1	ASTM D-150
Dissipation Factor at 1 MHZ	----	0.006	ASTM D-150
Water Immersion Stability	----	Pass	ASTM D-149
Dielectric Strength	Kv/mm	24	ASTM D-140
DC Volume Resistivity at 23°C	Ohms.cm	10 <sup>15</sup>	ASTM D-257