

LDPE for General Insulation

Melt Index **2.0**
Density **0.921**

Description

LD 830 is a high molecular weight, low density polyethylene(LDPE). It has good mechanical and excellent electrical properties.

Applications

LD 830 can be used for primary dielectric insulation of telephone, coaxial, control, power and other cables.

Specifications

LD 830 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

ASTM D1248 Type I, Category 3

Physical Properties	Unit	Test Method	Typical Value
Melt Index	g/10min	ASTM D1238	2.0
Density	g/cm ³	ASTM D1505	0.921
Tensile Strength	kg/cm ²	ASTM D638	>120
Elongation	%	ASTM D638	>600
Low Temperature Brittleness	°C	ASTM D746	<-76
Hardness (Shore D, 1 sec.)	-	ASTM D2240	52

Electrical Properties	Unit	Test Method	Typical Value
Dielectric Constant @ 1 MHz	-	ASTM D150	<2.3
Dissipation Factor @ 1 MHz	-	ASTM D150	<0.0005
Dielectric Strength (E ₀)	kV/mm	ASTM D149	>20
DC Volume Resistivity	ohm cm	ASTM D257	>10 ¹⁶

- 1) These are typical properties and are not to be regarded as specifications.
- 2) Compression molded sample prepared at 190°C for 15 min.

Processing Guidelines

LD 830 provides excellent surface finish and higher output rates over a broad range of conditions. A range of extrusion temperature in processing condition is 180~220 °C.

Storage

The material should be stored indoors (15~25 °C) in closed original packages in clean and dry environment. It is recommended that the using of the product on a first-in, first-out basis be established. Then recommended storage time at customer should not exceed 1 year.

Quality Systems

Hanwha maintains a quality management system according to ISO 9001. This system provides traceability of individual batches and their production. If process is changed in a way that suspected to change the properties of the product, Hanwha will provide adequate information to the customer.

Certificate

Based on quality inspection data at production, Hanwha supplies an inspection certificate for each batch. The certificate contains:

Product name
Batch number
Production date
etc.

Data Sheet and Safety

Most data sheet and safety data sheets are available on Hanwha web site, <http://hcc.hanwha.co.kr>
Please contact your Hanwha representative for more details on various aspects of safety, recovery and disposal of the product.

