

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 <sup>3</sup>	ASTM D1505	0.921
Tensile Strength	kg/cm <sup>2</sup>	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 <sub>0</sub> )	kV/mm	ASTM D149	>20
DC Volume Resistivity	ohm cm	ASTM D257	>10 <sup>16</sup>

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.

