

HDPE Cellular Insulation for Data Cable

Density

0.948

Description

CHYA-870F is a high density polyethylene cellular compound designed for Foam/Skin telephone cable and other cellular insulation applications. It contains controlled amount of chemical blowing agent that gives up to 50% cellular expansion through temperature controlled extrusion. It provides excellent processability and electrical/physical properties.

Applications

CHYA-870F can be used for foamed data cable insulation including air-core and jelly-filled.

Specifications

CHYA-870F meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

ASTM D1248 Type III, Category 4
ICEA-S84-608

Physical Properties	Unit	Test Method	Typical Value
Density	g/cm ³	ASTM D1505	0.948
Tensile Strength	kg/cm ²	ASTM D638	230
Elongation	%	ASTM D638	550
Oven Aging @ 100°C, 48 hours			
Retention of Tensile Strength	%	ASTM D638	>90
Retention of Elongation	%	ASTM D638	>90
ESCR, F ₀ @ 50°C, 10% Igepal	hrs	ASTM D1693	>1,000
Low Temperature Brittleness	°C	ASTM D746	<-76
Oxidative Induction Time(200°C, Al)	min.	ASTM D3895	>200

Electrical Properties	Unit	Test Method	Typical Value
Dielectric Constant @ 1 MHz	-	ASTM D150	<2.3
Dissipation Factor @ 1 MHz	-	ASTM D150	<0.0006
DC Volume Resistivity	ohm cm	ASTM D257	>10 ¹⁶

- 1) These are typical properties and are not to be regarded as specifications.
- 2) Under 50 mm/minute testing speed by molded / dumbbell shaped sheet

Processing Guidelines

CHYA-870F provides excellent surface finish and higher output rates over a broad range of conditions. A range of extrusion temperature in processing condition is 150~205 °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 sheets 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.

