

Semi-conductive Jacketing Compound

Description

DYM-710 is a thermoplastic semi-conductive jacketing compound for Power Cables based on HDPE. This product gives the excellent physical properties and good fluidity.

Specification

ICEA S-94-649
AEIC CS8
IEC 60502

Typical Physical-Electrical Properties

Test Items	Test Method	Unit	Value
Density at 23°C	ASTM D 1505	g/cm ³	1.05
Tensile Strength(50 mm/min)	ASTM D 638	N/mm ²	21
Elongation at Break		%	600
Tensile Strength after 168hrs at 100°C	ASTM D 638	%	>90
Retention			
Elongation at break after 168hrs at 100°C	ASTM D 638	%	>80
Retention			
Tensile Strength after 168hrs at 121°C	ASTM D 638	%	>90
Retention			
Elongation at break after 168hrs at 121°C	ASTM D 638	%	>80
Retention			
E.S.C.R 100% "IGEPAL" F20	ASTM D 1693	hrs	>2000
Moisture Content	Karl Fischer-titration	PPm	<800
Heat Deformation 121°C, 2kg	JIS C 3005	%	<10
Weather test(2000hrs)	Weather-O-Meter	-	No Crack
Hardness (Shore D)	ASTM D 2240	-	60
Volume Resistivity			
23 °C	ASTM D 991	Ω·cm	<70
90 °C	ASTM D 991	Ω·cm	<100

* E.S.C.R : Environmental stress cracking resistance

* Data should not be used for specification work.

Processing Techniques

Recommending standard extrusion temperature profiles of **DYM-710** are as followings ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
165±5	168±5	170±5	173±5	175±5	175±5	180±5	180±5

It is recommended that this product can be used conventional PE/PVC extruder. (L/D is 25~22/1 and C/R is 1.8~2.5:1) Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. We recommend hopper drying at 40~60°C for 4 hours to remove moisture before extrusion.

Packing

Form : 600kg Cardboard Box(Inner PE+Al bag packing)

Handling

To ensure health and safety, Material Safety Data Sheets(MSDS) is available on request.

Storage

Should be stored at room temperatures between 10~50°C. Recommended maximum storage period in dry and clean place is 12months unopened and in original packaging after the manufacture.

Disclaimer

The product can be used only for the application as specified here above. It is the customer responsibility to inspect and test our products to satisfy the suitability of this product to customer's particular purpose. No liability can be accepted regarding the use of our products in conjunction with other materials. No warranties shall be offered which extend beyond the description contained here above. The above-mentioned information relates exclusively to our products when not used in conjunction with any third party materials.



A member of the
Borealis Group

DYM SOLUTION CO., LTD.

Head Office : 50, 2gongdan 8-gil, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Korea, <http://www.dymcom.co.kr>
Tel : +82(0)41 621 6250, 621 8421 Fax : +82(0)41 621 8420