DYM-550HV

Wire & Cable Compound

Excellent surface smooth Semi-conductive Conductor and Bonded Insulation Shielding Compound for High Voltage Power Cables (Up to 230kV)

Description

DYM-550HV is a cross-linkable semi-conductive conductor and bonded insulation shielding compound for high voltage power cables. It is specially designed to have the optimized physical properties and hard condition resistant properties by using high conductivity Carbon drawn by the application of CNT(Carbon Nano Tube) Technology. This product provides excellent surface smoothness and electrical conductivity properties.

Specification

ICEA S-108-720
IEC 60840
IEC 62067

Typical Physical·Electrical Properties

Test Items	Test Method	Unit	Value
Density at 23°C	ASTM D 1505	g/cm^3	1.00
Tensile Strength(200 mm/min)	ASTM D 638	MPa	20
Elongation at Break before ageing		%	400
Tensile Strength after 168hrs at 135°C	ASTM D 638	%	
Retention		%	>90
Elongation at break after 168hrs at 135°C			
Retention			>90
E.S.C.R 100% "IGEPAL"F20	ASTM D 1693	hrs	>200
Moisture Content	Karl Fischer	PPm	<300
Volume Resistivity			
23 °C	ASTM D 991	Ω·cm	100
90 °C	ASTM D 991	Ω·cm	300

* 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-550HV** are as followings ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
95±5	100±5	103±5	105±5	110±5	115±5	115±5	115±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 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.

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