Thermoplastic semi conductive skin compound for jacketing

E6710 is a conductive thermoplastic compound intended for general skin and jacketing applications in cables.

Specifications

E6710 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

- AEIC CS 8 / CS 9
- BS 6622
- HD 620 S2 / HD 632 S3
- IEC: 60502 / 60840
- DIN VDE 0276-620 / 0276-632
- SS 424 14 16

Typical physical properties:

Property	Test method	Unit	Typical Value
Density at 23 °C	ASTM D1928	g/cm³	1,15
Moisture	QAHC-10420, (Karl Fischer method)	PPM	< 100
Tensile strength	ASTM D638	MPa	11
Elongation	ASTM D638	%	240
Mooney viscosity ML (1+4) at 121°C	ISO 289	MU	27

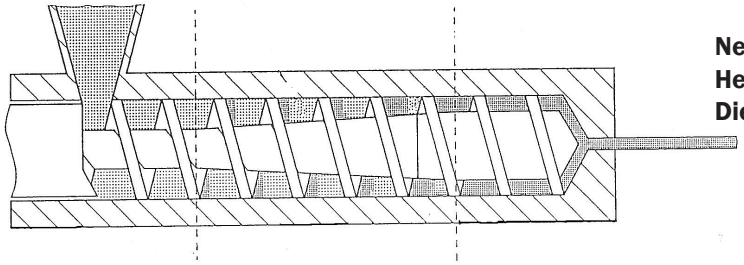
Typical electrical properties:

Property	Test method	Unit	Typical Value
DC Volume Resistivity of Cable at 23°C	ASTM D257	Ohm cm	< 150
DC Volume Resistivity of Cable at 90°C	ASTM D257	Ohm cm	< 1000

Processing conditions

E6710 provides an excellent surface finish when processing conditions are optimised for the actual processing equipment. Actual conditions will vary according to the equipment used, but as a guide we recommend following extrusion conditions:

Desiccant dryer: Not needed
Hopper: -



Neck: 120-150°C
Head: 120-150°C
Die: 120-150°C

Screw cooling: -°C
Comments: -

Extruder
Hopper inlet: 50-80°C
Barrel: 80-140°C

Delivery

Form:	Pellets
Package:	600 kg octabins with aluminium liner

Storage/Handling

The material is packed, secured and sealed fulfilling the stated properties above. The material shall be stored in sealed container and under dry and tempered conditions to obtain sustainable performance. Opened package should be carefully sealed before storage.

Safety

Safety data sheet is available upon request.

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