

# Cable Compounds

## Thermoplastic semiconductive outer shielding and jacketing compound

**E6790** is a conductive halogen free flame retardant thermoplastic compound with excellent process properties.

### Specifications

**E6790** meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

- Customer specifications

### Typical physical properties:

Property	Test method	Unit	Typical Value
Density at 23°C	ASTM D1928	g/cm <sup>3</sup>	1,31
Moisture	QAHC-10420, (Karl Fischer method)	PPM	< 800
Tensile strength	ASTM D638	MPa	> 16
Retention (10 days, at 110°C)		%	± 25%
Elongation	ASTM D638	%	> 600
Retention (10 days, at 110°C)		%	± 50%
MFR at 230°C, 10 kg	ISO 1133	g/10 min	14
Hardness Shore D 3s	ISO 7619-2010	-	> 65
LOI	ISO 4589-2	%	35

### Typical electrical properties:

Property	Test method	Unit	Typical Value
DC Volume Resistivity of Cable at 23°C	ASTM D257	Ohm cm	< 140

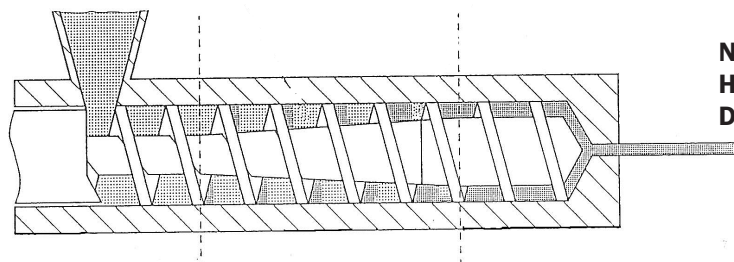
### Processing conditions

**E6790** provides an excellent surface finish when processing conditions are optimised for the actual processing equipment. E6790 requires no predrying.

Actual conditions will vary according to the equipment used, but as a guide we recommend following extrusion conditions:

**Desiccant dryer: -**

**Hopper: -**



**Neck: 180-200°C**

**Head: 180-200°C**

**Die: 180-200°C**

**Screw cooling: -**

**Comments: -**

**Extruder**

**Hopper Inlet: 150-170°C**

**Barrel: 160-200°C**

### Delivery

Form: Pellets

Package: 500 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.

The data sheet should be considered as guidelines, not binding information.

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