

HJ 0283

Thermoplastic Shielding Compound for Sioplas Method

Application

HJ0283 is a thermoplastic shielding compound, specially designed for cross-linkable overhead cables up to 35KV.

This product has excellent conductivity, processability and mechanical property.

Specifications

HJ0283 meets the applicable requirements as below when processed using sound extrusion practices and testing procedures.

- AEIC CS 7 and CS 8
- ICEA S-66-524/NEMA WC 7
- IEC 60502
- IEC 60840
- UL 1072

Physical Properties	Test Method	Unit	Standard	Typical Value
Density, 23°C	ASTM D1505	g/cm ³	≤1.2	1.15
Tensile Strength	ASTM D638	MPa	≥10	12
Elongation at Break	ASTM D638	%	≥200	220
After Oven Aging, 240hrs at 100°C				
Tensile Strength Retention	ASTM D638	%	≥80	≥85
Elongation at Break Retention		%	≥80	≥85
Moisture Content	Karl Fisher	ppm	≤500	450
Brittleness Temperature	ASTM D746	°C	≤-40	-45
Electrical Properties				
DC Volume Resistivity at				
20°C	ASTM D991	Ω.cm	≤100	10
90°C		Ω.cm	≤1000	400

Process Technology

① Temperature Setting of Extruder :

Zone	1#	2#	3#	4#	Head	Feeding, Water Cooling, Screw
Temp.(°C)	140°C	150°C	155°C	160°C	165°C	65°C

② It' s recommended to use stainless steel wire filter (20×40×20).

③ The above temperature settings are the most typical ones. With different extruder devices, it can be adjusted in terms of the practical situation after extrusion in use, combining with melting pressure and current, in order to achieve the best extrusion result.

Packages

HJ0283 is in pellet form and packed in 25kg per bag or 600kg carton box palletized(inner PE bag packing).

Storage

HJ0283 should be stored under clean, cool, dry and ventilated conditions. Away from moisture and directly sunlight.

Safety

HJ0283 is not hazardous article. Please refer to our Material Safety Data Sheet (MSDS) for more details.