



SEJI CHEMICAL CO., LTD.

SJ-201C

Crosslinkable Semiconductive Shielding Compound

Overview

SJ-201C is a outstanding crosslinkable semiconductive polyethylene copolymer compound for conductor shielding of medium voltage XLPE insulated power cable.(FR CNCO/W).

SJ-201C is compatible with copper and aluminum conductors. SJ-201C provides a super-smooth surface yielding virtually perfect interface between the extruded shield and insulation.

Significantly improved cable performance can be expected.

SJ-201C has stable volume resistivity characteristics at elevated temperatures.

Specifications

ICEA S-93-639, ICEA S-94-649
IEC 60502-2
AEIC CS8
UL 1072

Properties

This TDS is typical data only and are not to be construed as specifications. Users should results their own test. Tests are conducted on compression molded slabs cured 15 minutes at 180°C.

Physical

	Value (English)	Value (SI)	Test Method
Density	1.13 g /cm ³	1.13 g /cm ³	ASTM D 1505
Moisture Content	300 ppm	300 ppm	ASTM D 6869
Melt Flow Rate[125°C(257°F)/10.0 kg]	3.50 g/10min	3.50 g/10min	ASTM D 1238
Brittleness temperature	<-40 °C	<-40 °C	ASTM D 746

Mechanical

	Value (English)	Value (SI)	Test Method
Ultimate Tensile Strength	2756 psi	19.0 Mpa	ASTM D 638
Elongation at Break	190 %	190 %	ASTM D 638
Retention of Tensile Strength After Ageing - 135°C[275°F], 168hrs	85 %	85 %	IEC 60811-401
Retention of Elongation After Ageing - 135°C[275°F], 168hrs	85 %	85 %	IEC 60811-401

Electrical

	Value (English)	Value (SI)	Test Method
Volume Resistivity			ASTM D 991
at 23 °C[73.4°F]	1,000 Ωcm	1,000 Ωcm	
at 90 °C[194°F]	3,000 Ωcm	3,000 Ωcm	
at 135 °C[275°F]	5,000 Ωcm	5,000 Ωcm	

Processing

SJ-201C provides excellent surface finish and outstanding output rates over a broad range of extrusion conditions.

SJ-201C requires melt stock temperatures in the range of 110°C to 120°C for best results.

Product Data sheet

22 June 2019 Rev 2



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Lower melt temperatures may result in unmelted extrudate and higher melt temperatures may result in extrudate scorch and It can even trigger die-drools.

The curing configuration : the maximum cable surface temperature in the curing zone should be maintained below 200°C. If the surface temperature of the cable in the curing zone is over 200°C, it may cause cracks in the cable, so careful temperature control is required. Dehumidified hopper drying at 60~70°C for up to 4 hours prior to extrusion could help remove moisture.

Specific processing conditions depend on equipment and cable dimensions.

Optimum conditions by conventional practices should be established.

Packing & Storage

Packed in 600kg polybag lined carton box.

Recommended maximum storage period is 12months unopened and in original packaging after the manufacture.

Stored at room temperatures

86 °F

30 °C

The shelf life of this product is 1 year from the date of manufacture.

Safety

Please contact Seji Chemical for Material Safety Data Sheet.

Disclaimer

Information contained in this data sheet is up-to-date and correct as at the date of issue.

Seji chemical Co., Ltd. cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use.

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