Product Data sheet

10 Aug 2015 Rev 0

SEJI CHEMICAL CO,. LTD.

SJ-801

Semiconductive Black Jacket Compound

Overview

SJ-801 is a semiconductive compound specifically designed for jacketing over medium and high voltage power cable. It combines the excellent physical properties and stress crack resistance and toughness and superior volume resistivity stability and ease of processing.
SJ-801 provides a super-smooth surface finish and outdoor weatherability.

SJ-801 has stable environmental stress crack resistance characteristics.

Specifications

ICEA S-93-639, ICEA S-94-649
AEIC CS8

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 5 minutes at 180℃.

Physical	**Value (English)**	**Value (SI)**	**Test Method**
Density	1.05 g/㎤	1.05 g/㎤	ASTM D 1505
Moisture Content	300 ppm	300 ppm	ASTM D 6869
Melt Flow Rate[190°C(374°F)/2.16 kg]	0.50 g/10min	0.50 g/10min	ASTM D 1238
Brittleness temperature	<-70 °C	<-70 °C	ASTM D 746

Mechanical	**Value (English)**	**Value (SI)**	**Test Method**
Ultimate Tensile Strength	3046 psi	21.0 Mpa	ASTM D 638
Elongation at Break	350 %	350 %	ASTM D 638
Retention of Tensile Strength After Ageing - 135°C[275°F], 168hrs	90 %	75 %	IEC 60811-401
Retention of Elongation After Ageing - 135°C[275°F], 168hrs	90 %	75 %	IEC 60811-401
Environmental Stress Cracking at F0 10% “Igepal” Solvent	1,000 h	1,000 h	ASTM D 1693

Electrical	**Value (English)**	**Value (SI)**	**Test Method**
Volume Resistivity			ASTM D 991
at 23℃[73.4℉]	1,000 Ωcm	1,000 Ωcm	
at 90℃[194°F]	3,000 Ωcm	3,000 Ωcm	

Processing

SJ-801 provides excellent surface finish and outstanding output rates over a broad range of extrusion conditions.
SJ-801 requires melt stock temperatures in the range of 160℃ to 190℃ for best results.
Lower melt temperatures may result in unmelted extrudate and higher melt temperatures may result in extrudate It can even trigger die-drools.
Dehumidified hopper drying at 80～90℃ for up to 4 hours prior to extrusion could help remove moisture. Specific processing conditions depend on equipment and cable dimensions.

72, Daedeok-ro, Samseong-myeon, Eumseong-gun, Chungcheongbuk-do, Korea[27649]
Telephone. +82-43-881-1999 Fax. +82-43-882-0183 W. www.sjccom.com

Product Data sheet

10 Aug 2015 Rev 0

SEJI CHEMICAL CO,. LTD.

SJ-801

Semiconductive Black Jacket Compound

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 ℉ 30 ℃
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.
Information inserted in this document such as data, statements, representative values, etc. are provided solely for customer convenience. **Therefore, nothing in the contents of this document shall have any legal binding effect, and especially, the representative value is simply for reference and is not a minimum value that has legal binding effect.**
To the maximum extent permitted by law, **Seji chemical Co., Ltd.** will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet.
No express or implied warranties are given other than those implications mandatory by law.

72, Daedeok-ro, Samseong-myeon, Eumseong-gun, Chungcheongbuk-do, Korea[27649]
Telephone. +82-43-881-1999 Fax. +82-43-882-0183 W. www.sjccom.com