Product Data sheet

10 Aug 2015 Rev 0

SEJI CHEMICAL CO,. LTD.

SJ-801

Black Jacket Compound

Overview

SJ-801 is a HDPE-based thermoplastic compound designed for jacketing of power cables, optical and communication cables.
It combines the excellent physical properties and stress crack resistance.
SJ-801 is contains 2.5 wt% carbon black evenly dispersed to provide a very smooth surface finish and excellent weather resistance.

Specifications

ICEA S-93-639, ICEA S-94-649
IEC 60502 ST3, ST7, IEC 60840 ST3, ST7,
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 5 minutes at 180℃.

Physical	**Value (English)**	**Value (SI)**	**Test Method**
Density	0.95 g/㎤	0.95 g/㎤	ASTM D 1505
Moisture Content	300 ppm	300 ppm	ASTM D 6869
Melt Flow Rate[190°C(374°F)/2.16 kg]	0.30 g/10min	0.30 g/10min	ASTM D 1238
Brittleness temperature	<-70 °C	<-70 °C	ASTM D 746

Mechanical	**Value (English)**	**Value (SI)**	**Test Method**
Ultimate Tensile Strength	2610 psi	18.0 Mpa	ASTM D 638
Elongation at Break	600 %	600 %	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
Environmental Stress Cracking at F0 10% “Igepal” Solvent	5,000 h	5,000 h	ASTM D 1693
Hardness at shore D, 1sec	56	56	ASTM D 2240

Electrical	**Value (English)**	**Value (SI)**	**Test Method**
Volume Resistivity at 23℃[73.4°F]	$1.0x10^{15}$ Ωcm	$1.0x10^{15}$ Ωcm	ASTM D 257
Dissipation Factor at 1MHz	0.00025	0.00025	ASTM D 150
Dielectric Constant at 1MHz	<2.1	<2.1	ASTM D 150
Dielectric Strength	500 Volt/mil	500 Volt/mil	ASTM D 496

Processing

SJ-801 provides excellent surface finish and outstanding output rates over a broad range of extrusion

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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.
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.
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