Product Data sheet

28 NOV 2025 Rev 0

SEJI CHEMICAL CO,. LTD.

SJ-804

Semiconductive Linear Low Density Polyethylene Compound

Overview

SJ-804 is a themoplastic semiconductive compound specifically designed for jacketing over medium and high voltage power cable. It combines the excellent physical properties and stress crack resistance. and superior volume resistivity stability and ease of processing.

Specifications

IEC 63026

Properties

This TDS is typical data only and are not to be construed as specifications. Users should results their own test.

Physical	**Value (English)**	**Value (SI)**	**Test Method**
Density	1.04 g/㎤	1.04 g/㎤	ASTM D 1505
Moisture Content	600 ppm	600 ppm	ASTM D 6869
Low Temperature Brittleness	<-70 °C	<-70 °C	ASTM D 746
Melt Flow Rate[190°C(374°F)/10.0 kg]	2.00 g/10min	2.00 g/10min	ASTM D 1238

Mechanical	**Value (English)**	**Value (SI)**	**Test Method**
Ultimate Tensile Strength	3,620 psi	25.0 Mpa	IEC 60811-501
Elongation at Break	500 %	500 %	IEC 60811-501
Retention of Tensile Strength After Ageing - 110°C, 240hrs	90 %	90 %	IEC 60811-401
Retention of Elongation After Ageing - 110°C, 240hrs	80 %	80 %	IEC 60811-401
Retention of Tensile Strength After Ageing - 121°C, 168hrs	80 %	80 %	IEC 60811-401
Retention of Elongation After Ageing - 121°C, 168hrs	80 %	80 %	IEC 60811-401

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]	5,000 Ωcm	5,000 Ωcm	

Etc.	**Value (English)**	**Value (SI)**	**Test Method**
Hardness (Shore D)	56 hrs	56 hrs	ASTM D 2240

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Processing

SJ-802 provides excellent surface finish and outstanding output rates over a broad range of extrusion conditions. The recommend extrusion typically parameters are as follows:

Zone 1	Zone 2	Zone 3	Zone 4	HEAD	DIE
160	165	170	175	180	185

Recommended parameters are based on tests conducted on a 90mm extruder
(full flight extruder L/D 24:1, C/R 1.2:1)
Specific processing conditions depend on equipment and cable dimensions. Optimum conditions by conventional practices should be established.

Packing & Storage

Basic packaging in 600kg carton box or 25kg sack.Can be customized upon request.
Recommended maximum storage period is 12months unopened and in original packaging after the manufacture.

Stored at room temperatures 176 ℉ 80 ℃
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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