



Technical Data Sheet

Product Name
SCGC™ XLPE

Product Type
XLPE Peroxide compound for SAC

Product Grade
DE4214WC

Product Description

SCGC XLPE Peroxide compound for spaced aerial cable is a black colored, peroxide crosslinkable low density polyethylene compound with well-dispersed carbon black designed for jacketing of spaced aerial cable up to 33 kV.

Typical Application

- Jacketing of spaced aerial cable

Product Characteristics

- Good thermal stability
- Good weather resistance
- Low temperature extrudability

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate at 190 °C and 2.16 kg	ASTM D 1238	1.9*	g/10 min
Density (Compound)	ASTM D 1505	0.930	g/cm ³
Tensile Strength at Break (500 mm/min)	ASTM D 638	17	MPa
Elongation at Break (500 mm/min)	ASTM D 638	> 400	%
Hot/Set @ 150°C, 20 N/cm ² - Hot Elongation	TIS 2341	< 100	%
Hot/Set @ 150°C, 20 N/cm ² - Permanent Set	TIS 2341	< 5	%
Carbon black content	ASTM D 4218	2.0 - 2.3	%wt
Mechanical property after aging at 121 C for 168 hours			
% Retention of Tensile Strength at Break (500 mm/min)	ASTM D 638	≥ 75	%
% Retention of Elongation at Break (500 mm/min)	ASTM D 638	≥ 75	%

Note:

- The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.
- * Value measured without peroxide

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Processing Guidelines

For extrusion of SCGC XLPE Peroxide compound for spaced aerial cable, it is recommended to use with the screw giving good homogenization without excessive shear. Standard PE screws have proven satisfactorily which provide good result.

SCGC XLPE Peroxide compound for spaced aerial cable is recommended to have proper drying before using in order to acquire good product performance.

Recommended melt temperature is 120°C.

If preheating and/or drying is used, the suitable condition is 80-95 °C for 1-2 hours.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, contact your SCG Chemicals technical services at the address as specified below.

Product Available Form

- Pellet

Product Packaging

- Octabin box

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Co., Ltd.
- Product(s) should be stored in dry and dust free location at temperature below 50 °C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be sloped.

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