

Technical Data Sheet

Product Name **SCGC™ XLPE**

Product Grade

DE4214WC

XLPE Peroxide compound for SAC

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

Product Characteristics

- Jacketing of spaced aerial cable
- 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/cm³			
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/cm² - Hot Elongation	TIS 2341	< 100	%			
Hot/Set @ 150°C, 20 N/cm² - 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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SCGCTM XLPE

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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.

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Product Packaging

Pellet

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 slopped.

Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Chemicals technical services.

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Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Chemicals technical services.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Chemicals technical services.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
 - Safety Data Sheet
 - Declaration of Compliance

Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials.

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