



Technical Data Sheet

Product Type

Crosslinkable Polyethylene

Product Name

**SCGC™ XLPE
COMPOUND**

Product Grade

1507BKAP

Product Description

SCGC™ 1507BKAP is a cross-linkable polyethylene powder for rotational molding. Specifically engineered for diesel fuel tanks in truck and agricultural tractor this grade delivers exceptional durability under high-heat conditions, high impact resistance, and excellent ESCR. Available in black.

Typical Application

- Diesel fuel tanks
- Chemicals tanks

Product Characteristics

- Excellent ESCR
- Excellent impact resistance
- High temperature service

Physical Properties

Property	Test Method	Typical Value	Unit
Density	ASTM D 1505	0.950	g/cm ³
Heat Deflection Temperature @ 0.455 MPa	ISO 75-2	64 (147)	°C (°F)
Tensile Strength at Yield	ASTM D 638 @ Speed 50 mm/min	20 (2,900)	MPa (psi)
Tensile Strength at Break	ASTM D 638 @ Speed 50 mm/min	24 (3,480)	MPa (psi)
Elongation at break	ASTM D 638 @ Speed 50 mm/min	690	%
Flexural Modulus	ASTM D 790 2% Secant	590 (85,600)	MPa (psi)
ESCR (10% Igepal, Condition A), F50	ASTM D 1693	> 1,000	hrs, F50
ESCR (100% Igepal, Condition A), F50	ASTM D 1693	> 1,000	hrs, F50
ARM Impact Strength @ -40 °C (5.5 mm rotomolded sample)	ARM Method	35	J/mm

Note: The given values are typical values measured on the product. Values herein are not to be constructed as a product specification.



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Processing Guidelines

Molding cycles depend on mold materials and its wall thickness, oven temperature, and shot size. Typical oven temperatures should be set between 260 and 300 °C. The recommended PIAT for 1507BKAP is about 200-240 °C

Points of Concerns

- It is not recommended to flame the surfaces of molded parts with an open torch due to risk of thermal degradation and premature failure.
- Inclusion of fillers or recycled materials into the resins either by compounding or dry blending is not recommended due to risk of compromised impact strength.
- Additional antioxidants, internal lubricants, or UV stabilizers into the virgin resins during the compounding process should be considered depending on the end applications.

Product Technical Assistance

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

Product Available Forms

- Black compound powder

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ SCGC ICO Polymers 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 odor generation and color 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.



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Safety

- The product is not classified as a hazardous material.
- Please see our 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.

Recycling

- The product is not suitable for recycling. Please see our 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.

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.

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