



Technical Data Sheet

Product Name
SCGC™ HDPE

Product Type
Polyethylene for Rotational Moulding

Product Grade
3982P

Product Description

Icorene® 3982 is bonding high density polyethylene powder to increase adhesion between Polyethylene (PE) and Polyurethane (PU) foam by mechanical means. By enhancing contact surface. The product is specifically designed for rotomolded PE cooler box with PU foam insulation or multi-layer part consisting of PE/PU Product.

Typical Application

- Insulated container with PU foam
- Cooler box with PU foam
- Buoys with PU foam filled
- Multi-layer (PE/PU)

Product Characteristics

- Virgin materials
- Enhance bonding between PE and PU foam
- Free flow, high bulk density
- Recyclable

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate @ 190°C, 2.16 kg	ASTM D 1238	0.04	g/10 min
Density	ASTM D 1505	0.954	g/cm ³
Melting Point	ASTM D 2117	131 (268)	°C (°F)
Powder Properties			
Bulk density	ASTM D 1895	> 0.34	g/cm ³
Average Particle Size	TPE Method	400 - 700	micron

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

Thai Polyethylene Co., Ltd.





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Processing Guidelines

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

- Natural powder

Product Packaging

- 25 kg loose bag

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.

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