



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.



Technical Data Sheet	Product Name SCGC™ HDPE
Product Type Polyethylene for Rotational Moulding	Product Grade 3982P

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.

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.



Technical Data Sheet	Product Name SCGC™ HDPE
Product Type Polyethylene for Rotational Moulding	Product Grade 3982P

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.