Provisional Technical Data Sheet

Product Name: **SCGC LLDPE**

Product Type: **Linear Low Density Polyethylene**

Product Grade: **L2420J**

Product Description

SCGC LLDPE L2420J is general purpose linear low density polyethylene resin suitable for injection molding process. This resin has been designed to have excellent impact strength, environmental stress crack resistance.

Typical Application

- General injection parts
- Household products
- Lids and bottle closures
- Masterbatch carrier

Product Characteristics

- Excellent impact resistance
- Good environmental stress crack resistance
- Good process ability

International Compliance

- Under evaluation

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	20	g/ 10 min
Density	ASTM D 792	0.924	g/cm^3
Tensile Strength at Yield	ASTM D 638	130	kg/cm^2
Elongation at Break	ASTM D 638	450	%
Flexural Modulus	ASTM D 790	6,600	kg/cm^2
Notched Izod Impact	ASTM D 256 @ 23°C	150	kJ/m^2
Hardness	ASTM D 2240	53	Shore D
ESCR	ASTM D 1693 @ 50°C (Condition B, Compression Molded, 100% Igepal)	24	hrs, F50
Melting Point	ASTM D 2117	122	°C
Vicat Softening Point	ASTM D 1525	90	°C
Brittleness	ASTM D 746	< -70	°C

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

- Conversion factor for changing unit from kg/cm^2 to MPa is divided by 10.20.

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Processing Guidelines

The actual processing conditions depend on each machine type, product size, mold design and environment.

Recommended processing conditions:

Melt temperature: 170-200°C, Mold temperature: 20-60°C, Injection speed: Fast, Screw speed 40-70 rpm.

Pressure: Injection 30-70%, Packing and Holding 30-50%, Back 10% of Max. Pressure

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, contact your Long Son Petrochemicals technical service or SCG Chemicals technical service at the address or telephone number as specified below.

Product Available Form

- Pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag

Storage

- Store in original container in tidy according to the manual of Handling and Storage from SCG Chemicals Company Limited.
- 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 Long Son Petrochemical service or SCG Chemicals technical service.

Recycling

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- 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 Long Son Petrochemicals technical service or SCG Chemicals technical service.

Related Documents

- The latest version of this document will be available at our website, www.lsp.com or www.scgchemicals.com, or can be obtained from the SCG Chemicals technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
    - Material Safety Data Sheet
    - Statement on compliance to food contact regulation.

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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