

## Product Description

EL-Pro P655IM is the polypropylene random copolymer resin that is well-suited to healthcare and pharmaceutical products with good clarity. P655IM is designed for product produced by Injection Stretch Blow Molding (ISBM) process. P655IM is compliant to FDA and USP requirements.

## Typical Application

- Saline solution bottle
- Medical devices
- Laboratory devices
- Applications produced by ISBM process

## International Standard

- Complies with USP class VI
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)

## Product Characteristics

- Suitable for autoclave sterilization
- Easy processing
- Good transparency
- Good impact resistance

Notice: It is strongly recommended that all potential activities for applications related to pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with SCG Performance's technical service department first. It is the responsibility of customers to determine that the product is safe, lawful and technically suitable for the intended use. SCG performance makes no warranties concerning the suitability of SCG Performance's product for using in any given medical application.

## Physical Properties

Property	Test Method	Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230°C, 2.16 kg	7	g/10 min
Density	ASTM D 1505	0.910	g/cm <sup>3</sup>
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	320	kg/cm <sup>2</sup>
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	650	%
Flexural Modulus	ASTM D 790	9000	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23°C	7	kg.cm/cm
Melting Point	ASTM D 2117	145	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	90	°C

Note : Conversion factor for changing unit from kg/cm<sup>2</sup> to MPa is divided by 10.20

## Processing Techniques

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

Recommended processing conditions:

Melt temperature: 200-230°C

Mold temperature: 20-50°C

## Product Technical Assistance

For technical assistance or further information on this product, please contact your SCG Performance's technical service at the address or telephone number as specified below.

## Product Available Form

## Product Packaging

- |          |                                 |
|----------|---------------------------------|
| ■ Pellet | ■ 25 kg loose bag               |
|          | ■ Big Bag with specified weight |

## Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene 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 sloped.

## 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, please contact SCG Performance's technical service.

## Related Documents

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 (MSDS)
- Statement on compliance to Food Contact Regulations
- Statement on compliance to Physicochemical requirements
- Statement on compliance with USP Class VI requirements

## Disclaimer

- The product can be used only for the application as specified hereabove.
- The product are not intended for use as medical implant material or implantable medical devices and we do not support their use for such application
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.
- We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.
- No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.
- The customer shall strictly follow any and all instructions outlined in MSDS of the product and also deliver such instructions to whom may it concern to avoid injury or damage. SCG Performance will not be liable for any damage or injury caused by any action that conflict with the instructions described in MSDS of the product and the customer shall indemnify and hold harmless SCG Performance for any liabilities and/or responsibilities of SCG Performance incurred as a result of the customer's failure to comply with this cause.

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