

**Product Description**

EL-Pro P642J is an impact copolymer polypropylene resin which contains anti-static agent and UV stabilizer suitable for injection molding process. This resin is recommended for product that requires high stiffness with good impact strength

**Typical Application**

- Washing machine parts such as tub, base, p:
- Automotive and electrical appliance parts
- Houseware and industrial use

**Product Characteristics**

- High stiffness with good impact balance and dimensional stability
- Good processibility and weatherability
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)

**Physical Properties**

Property	Test Method	Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230°C, 2.16 kg	10	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	280	kg/cm <sup>2</sup>
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	180	kg/cm <sup>2</sup>
Flexural Modulus	ASTM D 790	14000	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23°C	11	kg.cm/cm
Notched Izod Impact	ASTM D 256 @ 0°C	6	kg.cm/cm
Notched Izod Impact	ASTM D 256 @ -20°C	4	kg.cm/cm
Rockwell Hardness	ASTM D 785	80	R-Scale
Melting Point	ASTM D 2117	163, 120	°C
Vicat Softening Point	ASTM D 1525	150	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	110	°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: 230-270°C      Mold temperature: 25-70°C      Injection speed: Fast      Screw speed 40-70 rpm  
Pressure: Injection 40-80%,      Packing and Holding 30-60%,      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 SCG Chemicals 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

SCG Plastics Company Limited / SCG Performance Chemicals Company Limited





### 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, contact your SCG Plastics/SCG Performance Chemicals technical service.

### 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 Data Sheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.

### Related Documents

- The latest version of this document will be available at our website, [www.chemicals.scg.co.th](http://www.chemicals.scg.co.th), or can be obtained from the SCG Plastics/SCG Performance 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 regulations

EL-Lene™ EL-Pro™ EL-Wax™  are registered trademarks of SCG Chemicals, Thailand.

SCG Plastics Company Limited / SCG Performance Chemicals Company Limited

