

P642J

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, panel
- 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 ³
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	280	kg/cm ²
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	180	kg/cm ²
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	200	%
Flexural Modulus	ASTM D 790	14000	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23°C	10	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	75	R-Scale
Melting Point	ASTM D 2117	163, 120	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	110	°C

Note : Conversion factor for changing unit from kg/cm² 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 Available Form

- Pellet

Product Handling

- 25 kg loose bag
- Big Bag with specified weight