

# P700J

## Product Description

EL-Pro P700J is a homopolymer polypropylene resin suitable for general purpose product produced from injection molding process.

## Typical Application

- Household product, Toy, Office accessory
- Food container, Infant article
- Fruit basket

## Product Characteristics

- High processibility and odorless
- Good stiffness
- 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	12.0	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>
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	200	kg/cm <sup>2</sup>
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	650	%
Flexural Modulus	ASTM D 790	14500	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23°C	3	kg.cm/cm
Notched Izod Impact	ASTM D 256 @ 0°C	2	kg.cm/cm
Rockwell Hardness	ASTM D 785	90	R-Scale
Haze	ASTM D 1003	47	%
Gloss	ASTM D 2457	51	%
Melting Point	ASTM D 2117	163	°C
Vicat Softening Point	ASTM D 1525	155	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	110	°C
	ASTM D 648 @ 18.5 kg/cm <sup>2</sup>	65	°C
Brittleness Temperature	ASTM D 746	-20	°C
% Shrinkage MD	TPE Method	1.2	%
TD	TPE Method	1.2	%
Flamability	UL - 94	HB	-

Note : Conversion factor for changing unit from kg/cm<sup>2</sup> to MPa is divided by 10.2

## 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