

## Product Description

EL-Pro P851JO is a general random copolymer polypropylene resin which has high clarity, high brightness, good processibility and contains anti-static agent suitable for injection molding process.

## Typical Application

- Clear food container, Clear large size container
- Household product
- Articles required high transparency

## Product Characteristics

- Good processibility
- High gloss, clear and brightness, Odorless
- 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	20	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	600	%
Flexural Modulus	ASTM D 790	12500	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23°C	6.5	kg.cm/cm
Notched Izod Impact	ASTM D 256 @ 0°C	4	kg.cm/cm
Rockwell Hardness	ASTM D 785	80	R-Scale
Haze	ASTM D 1003	9	%
Gloss	ASTM D 2457	84	%
Melting Point	ASTM D 2117	150	°C
Vicat Softening Point	ASTM D 1525	130	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	100	°C
	ASTM D 648 @ 18.5 kg/cm <sup>3</sup>	50	°C
Brittleness Temperature	ASTM D 746	-20	°C
% Shrinkage (2mmt) MD	TPE Method	1.3	%
TD	TPE Method	1.4	%

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 Available Form

- Pellet

## Product Handling

- 25 kg loose bag
- Big Bag with specified weight

## Product Technical Assistance

For technical assistance or further information on this product or any other EL-Pro products, please contact EL-Pro representatives.

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