

# LOTTE CHEMICAL

June, 2015

## RANPELEN J-590K

## PP RANDOM COPOLYMER

### General Information

#### Description

J-590K is a nucleated random copolymer for injection molding applications. This grade is designed to be processed in conventional injection molding equipment and offers super excellent transparency, good mechanical balance, high gloss, lower cycle time, super high flow and low smell. J-590K is a 'Phthalate-Free' product.

#### Applications

- Thin-wall food container, Stationery, Disposable syringe, CD/DVD case
- High transparency TWIM parts

### Physical Properties<sup>1</sup>

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	44	g/10min		
Density	ASTM D792	0.9	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ASTM D638	280	kgf/cm <sup>2</sup>	27	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	11,500	kgf/cm <sup>2</sup>	1,130	MPa
Rockwell Hardness	ASTM D785	95	R		
<b>Impact</b>					
Notched Izod Impact Strength (23 °C)	ASTM D256	4.0	kgf·cm/cm	39	J/m
Notched Izod Impact Strength (-10 °C)	ASTM D256	2.5	kgf·cm/cm	24	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ASTM D648	95	°C		
<b>Additional Properties</b>					
Haze	ASTM D1003	20	%		

### NOTE

ISO 9001, 14001, /TS 16949

<sup>1</sup> Physical Properties : these are not to be construed as specifications