

# LOTTE CHEMICAL

January, 2013

## RANPELEN J-560K

## PP RANDOM COPOLYMER

### General Information

#### Description

J-560K is a high performance 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 stiffness/impact strength balance, high gloss, high hinge property and low smell.

#### Applications

- ◆ Cosmetics container & cap, Food container, Transparency case, Stationery
- ◆ Disposable syringe, CD/DVD case

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

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	18	g/10min		
Density	ASTM D792	0.9	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ASTM D638	300	kgf/cm <sup>2</sup>	29	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	12,000	kgf/cm <sup>2</sup>	1,180	MPa
Rockwell Hardness	ASTM D785	90	R		
<b>Impact</b>					
Notched Izod Impact Strength (23 °C)	ASTM D256	5.0	kgf·cm/cm	49	J/m
Notched Izod Impact Strength (-10 °C)	ASTM D256	3.0	kgf·cm/cm	29	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ASTM D648	90	°C		
<b>Additional Properties</b>					
Haze	ASTM D1003	17	%		

#### NOTE

ISO 9001, 14001, /TS 16949

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

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

Physical	Test Method	Nominal Values			
Melt Flow Index	ISO 1133	18	g/10min		
Density	ISO 1183	0.9	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ISO 527-1	270	kgf/cm <sup>2</sup>	29	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	9,900	kgf/cm <sup>2</sup>	970	MPa
<b>Impact</b>					
Notched Izod Impact Strength (23 °C)	ISO 180	4.5	kgf·cm/cm	44	J/m
Notched Izod Impact Strength (-10 °C)	ISO 180	2.5	kgf·cm/cm	24	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ISO 75-1	80	°C		
<b>Additional Properties</b>					
Haze		17	%		

#### NOTE

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