

## RANPELEN J-580S

## PP RANDOM COPOLYMER

### General Information

#### Description

J-580S is a nucleated random copolymer for injection molding applications. This grade is designed to be processed in conventional injection molding equipment and offers high transparency, good mechanical balance, high gloss, lower cycle time, super high flow and low smell. J-580S 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	35	g/10min		
Density	ASTM D792	0.9	g/cm³		
Mechanical					
Tensile Stress (Yield)	ASTM D638	280	kgf/cm²	27	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	11,500	kgf/cm²	1,130	MPa
Rockwell Hardness	ASTM D785	95	R		
Impact					
Notched Izod Impact Strength (23℃)	ASTM D256	3.5	kgf·cm/cm	34	J/m
Notched Izod Impact Strength (-10℃)	ASTM D256	2.5	kgf·cm/cm	24	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm²)	ASTM D648	95	℃		
Additional Properties					
Haze	ASTM D1003	25	%		

### 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	35	g/10min		
Density	ISO 1183	0.9	g/cm³		
Mechanical					
Tensile Stress (Yield)	ISO 527-1	250	kgf/cm²	24	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	9,500	kgf/cm²	930	MPa
Impact					
Notched Izod Impact Strength (23℃)	ISO 180	3.0	kgf·cm/cm	29	J/m
Notched Izod Impact Strength (-10℃)	ISO 180	2.0	kgf·cm/cm	19	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm²)	ISO 75-1	85	℃		
Additional Properties					
Haze		25	%		

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