

RANPELEN J-550S

PP RANDOM COPOLYMER

General Information

Description

J-550S 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 stiffness/impact strength balance, high gloss, high hinge property and low smell. J-550S is a 'Phthalate-Free' product.

Applications

- ◆ Cosmetics container & cap, Food container, Transparency case, Stationery
- ◆ Water purifier parts

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	12	g/10min		
Density	ASTM D792	0.9	g/cm³		
Mechanical					
Tensile Stress (Yield)	ASTM D638	330	kgf/cm²	32	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	13,000	kgf/cm²	1,270	MPa
Rockwell Hardness	ASTM D785	95	R		
Impact					
Notched Izod Impact Strength (23 °C)	ASTM D256	5.5	kgf·cm/cm	54	J/m
Notched Izod Impact Strength (-10 °C)	ASTM D256	3.0	kgf·cm/cm	29	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm²)	ASTM D648	95	°C		
Additional Properties					
Haze	ASTM D1003	25	%		

NOTE

ISO 9001, 14001, ITS 16949

¹ Physical Properties : these are not to be construed as specifications

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Applications

- ◆ Cosmetics container & cap, Food container, Transparency case, Stationery
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Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ISO 1133	12	g/10min		
Density	ISO 1183	0.9	g/cm³		
Mechanical					
Tensile Stress (Yield)	ISO 527-1	300	kgf/cm²	29	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	10,500	kgf/cm²	1,030	MPa
Impact					
Notched Izod Impact Strength (23℃)	ISO 180	5.0	kgf·cm/cm	49	J/m
Notched Izod Impact Strength (-10℃)	ISO 180	2.5	kgf·cm/cm	24	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm²)	ISO 75-1	85	℃		
Additional Properties					
Haze		25	%		

NOTE

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