

J-550N

PP RANDOM COPOLYMER

General Information

Description

J-550N 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.

Applications

- ◆ Cosmetics container & cap, Food container, Transparency case, Stationery
- ◆ Waterpurifier parts, low extractable parts

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	12	g/10min		
Density	ASTM D792	0.9	g/cm ³		
Mechanical					
Tensile Stress (Yield)	ASTM D638	340	kgf/cm ²	33	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	13,000	kgf/cm ²	1,270	MPa
Rockwell Hardness	ASTM D785	95	R		
Impact					
Notched Izod Impact Strength (23℃)	ASTM D256	5.0	kgf-cm/cm	49	J/m
Notched Izod Impact Strength (-10℃)	ASTM D256	3.0	kgf-cm/cm	29	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm ²)	ASTM D648	105	℃		
Additional Properties					
Haze	ASTM D1003	27	%		

NOTE

ISO 9001, 14001

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/cm ³		
Mechanical					
Tensile Stress (Yield)	ISO 527-1	310	kgf/cm ²	30	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	10,500	kgf/cm ²	1,030	MPa
Impact					
Notched Izod Impact Strength (23℃)	ISO 180	4.5	kgf-cm/cm	44	J/m
Notched Izod Impact Strength (-10℃)	ISO 180	2.5	kgf-cm/cm	24	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm ²)	ISO 75-1	95	℃		
Additional Properties					
Haze		27	%		

NOTE

ISO 9001, 14001

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