LOTTE CHEMICAL

June, 2015

RANPELEN 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. J-550N is a 'Phthalate-Free' product.

Applications

- **Cosmetics container & cap, Food container, Transparency case, Stationery**
- **Water purifier parts, low extractable parts**

Physical Properties[1]

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/cm²)	ASTM D648	105	℃		
Additional Properties					
Haze	ASTM D1003	27	%		

NOTE

ISO 9001, 14001, /TS 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**
- **Water purifier parts, low extractable parts**

Physical Properties[1]

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, /TS 16949

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