

# InnoPlus HD2200JP

High Density Polyethylene

PTT Global Chemical Public Company Limited

## Message:

InnoPlus HD1600JP and HD2200JP are high density polyethylene which can be processed in either injection or compression molding. Both grades have excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water.

General Information			
Features	Food Contact Acceptable		
	Good Organoleptic Properties		
	Low Odor Transfer		
	Low Taste Transfer		
Uses	Caps		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	6.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	30.4	MPa	
Break	20.6	MPa	
Tensile Elongation (Break)	> 1000	%	ASTM D638
Apparent Bending Modulus	1080	MPa	ASTM D747
Flexural Modulus	1420	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>1</sup>	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ASTM D1525 <sup>2</sup>
Peak Melting Temperature	131	°C	ASTM D3418
Additional Information	Nominal Value	Unit	

Compression Molding Temperature	140 to 165	°C
Injection	Nominal Value	Unit
Rear Temperature	170 to 200	°C
Middle Temperature	170 to 200	°C
Front Temperature	170 to 200	°C
NOTE		
1.	Complete break	
2.	Rate A (50°C/h), Loading 1 (10 N)	

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