

# InnoPlus HD2209J

High Density Polyethylene  
PTT Global Chemical Public Company Limited

Message:  
InnoPlus HD2209J is high density polyethylene grade specially designed for ultra-high UV resistant requirement. It also exhibits high impact strength and good weathering resistance, suitable for outdoor applications.

General Information			
Features	Food Contact Acceptable		
	Good UV Resistance		
	Good Weather Resistance		
	High Impact Resistance		
Uses	Crates		
	Outdoor Applications		
	Pallets		
	Waste Containers		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	8.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.5	MPa	
Break	27.5	MPa	
Tensile Elongation (Break)	> 1000	%	ASTM D638
Apparent Bending Modulus	814	MPa	ASTM D747
Flexural Modulus	1170	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	122	°C	ASTM D1525 <sup>2</sup>

Peak Melting Temperature	129	°C	ASTM D3418
Injection	Nominal Value	Unit	
Rear Temperature	170 to 200	°C	
Middle Temperature	170 to 200	°C	
Front Temperature	170 to 200	°C	
Nozzle Temperature	180 to 195	°C	
NOTE			
1.	Complete break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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#### Recommended distributors for this material

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