

InnoPlus HD2208J

High Density Polyethylene
PTT Global Chemical Public Company Limited

Message:

InnoPlus HD2208J and HD2308J are high density polyethylene injection molding grade. They are tailored with narrow molecular weight distribution (MWD) result for good impact strength. Furthermore, they are UV stabilizer added that give the excellent UV resistance for outdoor applications such as auto part and industrial product.
Typical Application: Crates, Pallets, Garbage bins, Industrial tubes, Fruit baskets, Caps and Closures

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good UV Resistance		
	Narrow Molecular Weight Distribution		
Uses	Automotive Applications		
	Caps		
	Closures		
	Crates		
	Industrial Applications		
	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	0.961	g/cm ³	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)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	30.4	MPa	
Break	21.6	MPa	
Tensile Elongation (Break)	> 1000	%	ASTM D638

Apparent Bending Modulus	1080	MPa	ASTM D747
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525 ²
Peak Melting Temperature	131	°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	185 to 205	°C	
NOTE			
1.	Complete break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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