

InnoPlus HD5200B

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD5200B is high density polyethylene blow molding grade which have excellent rigidity and stiffness with good impact strength and appearance. They are used for small food and drinking containers up to 20 liters containers.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	High Rigidity		
	Pleasing Surface Appearance		
Uses	Bottles		
	Disposable Drinkware		
	Food Containers		
	Household Goods		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.966	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	30.0	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	31.4	MPa	
Break	34.3	MPa	
Tensile Elongation (Break)	> 1000	%	ASTM D638
Apparent Bending Modulus	1080	MPa	ASTM D747
Flexural Modulus	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	127	°C	ASTM D1525 ²
Peak Melting Temperature	133	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160 to 180	°C	
Cylinder Zone 2 Temp.	160 to 180	°C	
Cylinder Zone 3 Temp.	160 to 180	°C	
Cylinder Zone 4 Temp.	160 to 180	°C	
Cylinder Zone 5 Temp.	160 to 180	°C	
Die Temperature	180 to 200	°C	
NOTE			
1.	Partial Break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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