

# InnoPlus HD8200B

High Density Polyethylene

PTT Global Chemical Public Company Limited

## Message:

InnoPlus HD8200B is extra high molecular weight high density polyethylene blow molding grade which is recommended for 20-120 litre drums. It has excellent processability and exhibits very high impact strength, stiffness and superior environment stress crack resistance.

Typical Application: Hazardous chemical drums, Agricultural chemical drums.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Stiffness		
	Ultra High Molecular Weight		
Uses	Agricultural Applications		
	Drums		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.030	g/10 min	
190°C/21.6 kg	4.0	g/10 min	
Environmental Stress-Cracking Resistance (25% Igepal, F50)	> 1000	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	29.4	MPa	
Break	36.3	MPa	
Tensile Elongation (Break)	850	%	ASTM D638
Apparent Bending Modulus	883	MPa	ASTM D747
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>1</sup>	630	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ASTM D1525 <sup>2</sup>
Peak Melting Temperature	131	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	175 to 190	°C	
Cylinder Zone 2 Temp.	175 to 190	°C	
Cylinder Zone 3 Temp.	175 to 190	°C	
Cylinder Zone 4 Temp.	175 to 190	°C	
Cylinder Zone 5 Temp.	175 to 190	°C	
Die Temperature	180 to 200	°C	
NOTE			
1.	Non break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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