

InnoPlus HD7200B

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD7200B 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 extremely 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.)		
	Ultra High Impact Resistance		
	Ultra High Molecular Weight		
	Ultra High Stiffness		
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	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.040	g/10 min	
190°C/21.6 kg	8.0	g/10 min	
Environmental Stress-Cracking Resistance (25% Igepal, F50)	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.4	MPa	
Break	34.3	MPa	
Tensile Elongation (Break)	800	%	ASTM D638
Apparent Bending Modulus	981	MPa	ASTM D747
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	250	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ASTM D1525 ²
Peak Melting Temperature	130	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	195 to 220	°C	
Cylinder Zone 2 Temp.	195 to 220	°C	
Cylinder Zone 3 Temp.	195 to 220	°C	
Cylinder Zone 4 Temp.	195 to 220	°C	
Cylinder Zone 5 Temp.	195 to 220	°C	
Die Temperature	200 to 220	°C	
NOTE			
1.	Non break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

