

InnoPlus HD6200B

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD6200B and HD6600B are high density polyethylene blow molding grade with optimum balance of processability, environmental stress cracking resistance (ESCR) and impact strength. They are used for wide variety blow molding applications of small to medium size container and multi use grade from high ESCR to normal ESCR.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	Pleasing Surface Appearance		
Uses	Containers		
	Cosmetic Packaging		
	Personal Care		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	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)	60.0	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	32.4	MPa	
Break	34.3	MPa	
Tensile Elongation (Break)	1000	%	ASTM D638
Apparent Bending Modulus	981	MPa	ASTM D747
Flexural Modulus	1470	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	120	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
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	165 to 190	°C	
Cylinder Zone 2 Temp.	165 to 190	°C	
Cylinder Zone 3 Temp.	165 to 190	°C	
Cylinder Zone 4 Temp.	165 to 190	°C	
Cylinder Zone 5 Temp.	165 to 190	°C	
Die Temperature	180 to 195	°C	
NOTE			
1.	Partial Break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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