

Hanwha Total PE B221B

High Density Polyethylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

B221B is a high-density polyethylene resin for blow molded bottles. This grade can be processed in conventional blow molding equipment.

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Organoleptic Properties		
	Good Processability		
	Good Surface Finish		
	High Density		
	High Rigidity		
	High Tensile Strength		
	Scratch Resistant		
	Ultra High Impact Resistance		
Uses	Blow Molding Applications		
	Bottles		
	Tanks		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	250	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.5	MPa	
Break	36.3	MPa	
Tensile Elongation (Break)	500	%	ASTM D638
Apparent Bending Modulus	1080	MPa	ASTM D747

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-80.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525 ¹
Melting Temperature	131	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	140 to 170	°C	
Cylinder Zone 2 Temp.	140 to 170	°C	
Cylinder Zone 3 Temp.	140 to 170	°C	
Cylinder Zone 4 Temp.	140 to 170	°C	
Cylinder Zone 5 Temp.	140 to 170	°C	
Adapter Temperature	160 to 200	°C	
Die Temperature	160 to 200	°C	
NOTE			
1.	Loading 1 (10 N)		

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