

InnoPlus HD6800B

High Density Polyethylene

PTT Global Chemical Public Company Limited

Technical Data

Product Description

InnoPlus HD6800B is high density polyethylene blow molding grade with optimum balance of stiffness and impact strength. InnoPlus HD6800B is used for down gauging purpose of bottle.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Asia Pacific		
Features	• Food Contact Acceptable		
Uses	• Bottles	• Containers	• Food Packaging
Agency Ratings	• FDA 21 CFR 177.1520		
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)		ASTM D1238
190°C/2.16 kg	0.17 g/10 min	
190°C/5.0 kg	0.80 g/10 min	
Environmental Stress-Cracking Resistance		ASTM D1693B
25% Igepal, F50	36.0 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	29.4 MPa	
Break	28.4 MPa	
Tensile Elongation (Break)	1000 %	ASTM D638
Apparent Bending Modulus	1180 MPa	ASTM D747
Flexural Modulus	1770 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact ³	420 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	66	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	127 °C	ASTM D1525 ⁴
Peak Melting Temperature	132 °C	ASTM D3418

Extrusion	Nominal Value Unit
Cylinder Zone 1 Temp.	170 to 200 °C
Cylinder Zone 2 Temp.	170 to 200 °C
Cylinder Zone 3 Temp.	170 to 200 °C
Cylinder Zone 4 Temp.	170 to 200 °C
Cylinder Zone 5 Temp.	170 to 200 °C
Die Temperature	180 to 200 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Partial Break

⁴ Rate A (50°C/h), Loading 1 (10 N)