

InnoPlus HD7000H

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD7000H is high density polyethylene which has outstanding mechanical strength, good weathering resistance and excellent product appearance. It is suitable to produce not only truck-bed liner from sheet extrusion and thermoforming process but also automotive fuel tanks from blow molding process.

Typical Application: Truck-bed liner, Automotive fuel tank

General Information			
Features	Food Contact Acceptable		
	Good Weather Resistance		
	High Strength		
	Pleasing Surface Appearance		
Uses	Fuel Tanks		
	Liners		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.10	g/10 min	
190°C/21.6 kg	10	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	27.5	MPa	
Break	39.2	MPa	
Tensile Elongation (Break)	900	%	ASTM D638

Apparent Bending Modulus	834	MPa	ASTM D747
Flexural Modulus	1080	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	460	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ASTM D1525 ²
Peak Melting Temperature	130	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Blow Molding Temperature	190 to 220	°C	
Thermoforming Molding Temperature	210 to 230	°C	
NOTE			
1.	Non break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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