

InnoPlus HD7000F

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD7000F is high density polyethylene film grade which well known for the high quality film applications. This grade is excellent for thin film processing with high mechanical strength, good stiffness and good heat sealability. It is suitable for producing general purpose packaging films in a wide range of size and thickness.

Typical Application : Shopping bags, T-Shirt bags, Bags on roll, Garbage bags, Re-sealable bags, sanitary bags, Plastic gloves

General Information			
Features	Food Contact Acceptable		
	Good Heat Seal		
	Good Stiffness		
	High Strength		
Uses	Bags		
	Film		
	Laundry Bags		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	> 2000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.4	MPa	
Break	38.2	MPa	
Tensile Elongation (Break)	820	%	ASTM D638
Apparent Bending Modulus	932	MPa	ASTM D747
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525 ²

Peak Melting Temperature	129	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 to 200	°C	
Cylinder Zone 2 Temp.	180 to 200	°C	
Cylinder Zone 3 Temp.	180 to 200	°C	
Cylinder Zone 4 Temp.	180 to 200	°C	
Cylinder Zone 5 Temp.	180 to 200	°C	
Die Temperature	190 to 210	°C	
NOTE			
1.	Non break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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