

InnoPlus HD6000F

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD6000F is high density polyethylene film grade which has special feature of output increment, good processability and drawdownability. This grade is suitable for high productivity or high speed machine to produce ultra thin films and general purpose films. InnoPlus HD6000F exhibits high mechanical strength, good stiffness and good heat sealability.

Typical Application : bags on roll, shopping bags, T-Shirt bags, plastic gloves and other general purpose bags

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Drawdown		
	Good Heat Seal		
	Good Processability		
	Good Stiffness		
	Good 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)	0.16	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	> 500	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	25.5	MPa	
Break	36.3	MPa	
Tensile Elongation (Break)	950	%	ASTM D638
Apparent Bending Modulus	804	MPa	ASTM D747
Flexural Modulus	1080	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact ¹	260	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.	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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