

InnoPlus HD6000F

High Density Polyethylene

PTT Global Chemical Public Company Limited

Technical Data

Product Description

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

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Asia Pacific		
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

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 ³	260 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	64	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	125 °C	ASTM D1525 ⁴
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