

InnoPlus HD5001S

High Density Polyethylene
PTT Global Chemical Public Company Limited

Message:

InnoPlus HD5001S is high density polyethylene resin which offers excellent thermal stability for high temperature condition, good balance of processability, excellent tenacity and high production rates. InnoPlus HD5001S is recommended for monofilament or yarn applications.
Typical Application: Rope, Fishing net, Agricultural net, Tarpaulin, Woven sack

General Information	
Features	High tensile strength
	Workability, good
	Thermal stability, good
	Compliance of Food Exposure
Uses	monofilament
	Agricultural application
	Rope
	Web
	Line
	Fishery application
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Extrusion
	Filament extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	30.0	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	28.4	MPa	ASTM D638
Fracture	38.2	MPa	ASTM D638
Tensile Elongation (Break)	> 1000	%	ASTM D638
Apparent Bending Modulus	834	MPa	ASTM D747
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact ¹	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525 ²
Peak Melting Temperature	125	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	200 - 260	°C	
Cylinder Zone 2 Temp.	200 - 260	°C	
Cylinder Zone 3 Temp.	200 - 260	°C	
Cylinder Zone 4 Temp.	200 - 260	°C	
Cylinder Zone 5 Temp.	200 - 260	°C	
Die Temperature	250 - 260	°C	
Extrusion instructions			
Stretching temperature: 97-100°CStretching ratio: 8-10			
NOTE			
1.	Partial break		
2.	速率 A (50°C/h), 压 力1 (10N)		

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