

InnoPlus HD5000S

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD5000S is high density polyethylene resin which offers good balance of processability, high production rates, excellent tenacity and good appearance. InnoPlus HD5000S is recommended for monofilament or yarn applications.

Typical Application: Rope, Fishing net, Agricultural net, Tarpaulin, Woven sack

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	High Tensile Strength		
	Pleasing Surface Appearance		
Uses	Agricultural Applications		
	Fishing Applications		
	Monofilaments		
	Netting		
	Rope		
	Yarn		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	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	
Break	38.2	MPa	
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	230	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525 ²
Peak Melting Temperature	130	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Stretching Ratio	8 to 10		
Stretching Temperature	97 to 100	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	200 to 260	°C	
Cylinder Zone 2 Temp.	200 to 260	°C	
Cylinder Zone 3 Temp.	200 to 260	°C	
Cylinder Zone 4 Temp.	200 to 260	°C	
Cylinder Zone 5 Temp.	200 to 260	°C	
Die Temperature	250 to 260	°C	
NOTE			
1.	Partial break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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