

InnoPlus HD6366M

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD6366M is a natural color-high density polyethylene pipe grade.

Both are bimodal resins exhibit excellent creep resistance and chemical resistance properties. They are suitable for high quality pressure pipes, produced by conventional pipe extrusion process.

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Creep Resistance		
Uses	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.35	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (25% Igepal, F50)	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	23.0	MPa	
Break	34.0	MPa	
Tensile Strain (Break)	800	%	ISO 527-2
Apparent Bending Modulus	735	MPa	ASTM D747
Flexural Modulus	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	440	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ASTM D1525 ²
Peak Melting Temperature	128	°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 220	°C

NOTE

- | | |
|----|-----------------------------------|
| 1. | Non break |
| 2. | Rate A (50°C/h), Loading 1 (10 N) |

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