InnoPlus HD8100M

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD8100M is a natural color-high density polyethylene pipe grade which is certified as PE 100. InnoPlus HD8100M is bimodal resins exhibit excellent creep resistance and chemical resistance properties. This grade is suitable for high quality pressure pipes, produced by conventional pipe extrusion process.
Typical Application : High pressure and High temperature pipes; Drinking water pipes, Industrial pipes and Sewer pipes.

General Information	
Features	High density Good creep resistance Good chemical resistance Compliance of Food Exposure Bimodal molecular weight distribution
Uses	Piping system
Agency Ratings	FDA 21 CFR 177.1520 ISO 12162 PE 100
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Pipeline extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.25	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)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2
Yield	25.0	MPa	ISO 527-2
Fracture	33.0	MPa	ISO 527-2
Tensile Strain (Break)	750	%	ISO 527-2
Apparent Bending Modulus	735	MPa	ASTM D747
Flexural Modulus	1080	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact [1]	470	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	124	°C	ASTM D1525 [2]
Peak Melting Temperature	128	°C	ASTM D3418
Oxidation Induction Time (200°C)	> 40	min	ISO 11357-6
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	180 - 200	°C	
Cylinder Zone 3 Temp.	180 - 200	°C	
Cylinder Zone 5 Temp.	180 - 200	°C	
Die Temperature	190 - 220	°C	
NOTE			
1.	Non break		
2.	速率 A (50°C/h), 压 力1 (10N)		

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