

InnoPlus HD8100MB

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD8100MB is a black compounded-high density polyethylene pipe grade which is certified as PE100. 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			
Additive	Carbon Black (2%)		
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Creep Resistance		
Uses	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
	ISO 12162 PE 100		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm ³	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)	> 2000	hr	ASTM D1693B
Carbon Black Content	> 2.0	%	ISO 6964
Oxidation Induction Time (200°C)	> 50	min	ISO 11357-6
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	24.0	MPa	
Break	36.0	MPa	
Tensile Strain (Break)	780	%	ISO 527-2
Apparent Bending Modulus	785	MPa	ASTM D747
Flexural Modulus	1130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	124	°C	ASTM D1525 ²
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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