

Daelim Po1y® LH-4100

High Density Polyethylene

DAELIM INDUSTRIAL CO., LTD.

Message:

Daelim Po1y® LH-4100 is a High Density Polyethylene product. It can be processed by profile extrusion and is available in Asia Pacific. Typical application: Plumbing/Piping/Potable Water.

Characteristics include:

Hexene Comonomer

High ESCR (Stress Crack Resistant)

Impact Resistant

Wear Resistant

General Information			
Features	Durable		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	Ultra High Impact Resistance		
Uses	Piping		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 5		
	ISO/DIS 12162 - MRS 10 MPa, PE100		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.060	g/10 min	
190°C/5.0 kg	0.30	g/10 min	
Environmental Stress-Cracking Resistance (F20)	> 3000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	24.5	MPa	ASTM D638
Tensile Elongation ² (Break)	> 600	%	ASTM D638
Flexural Modulus	883	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (200°C) ³	> 40	min	ASTM D1525
Pipe Properties			ISO 1167
20°C ⁴	> 8.3	day	

80°C ⁵	> 375.0	day
80°C ⁶	> 166.7	day
Extrusion	Nominal Value	Unit
Melt Temperature	190 to 220	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	Al Pan	
4.	PE 100, 12.4 MPa	
5.	PE 100, 5.0 MPa	
6.	PE 100, 5.5 MPa	

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