

High Density Polyethylene

LH4100BL

Description

Characteristics	- PE 100 Equivalent Materials - Outstanding Stress Cracking Resistance - Hexene Comonomer - Excellent Impact Resistance & Durability
Applications	- Water & Gas Pipe - Oil & Engineering Pipe
Processing Recommendation	Processing Temperature 190~ 220°C
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	LH4100BL
Density	g/cm ³	ASTM D1505	0.959
Melt Index (190°C, 5.0kg)	g/10min	ASTM D1238	0.31
Vicat Softening Point	°C	ASTM D1525	126
Melting Temperature	°C	ASTM D3418	130
Additives	-	-	AO, PPA
Sheet Properties	Unit	Test Method	LH4100BL
Tensile Strength at Break	kg/cm ²	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/cm ²	ASTM D790	Non Break
Izod Impact Strength (Notch, -30°C)	kg-cm/cm	ASTM D256	8,000
ESCR (Condition B, F20)	hr	ASTM D1693	>2,000
OIT(200°C, Al Pan)	min	ASTM D 3895	>60
Pipe Properties (PE 100)	12.4MPa, 20°C 5.5MPa, 80°C 5.0MPa, 80°C	hr ISO 1167	>100 >165 >1,000

- Physical properties reported herein were determined on compression molded specimens prepared in accordance with ASTM D4703
- Additives : AO(Antioxidant), PPA(Polymer Processing Aid)
- These are typical properties only and are not to be construed as specifications.

*NOTICE: Prior to use for any commercial purpose, the customer is fully responsible for determining its suitability for intended application and for ensuring its disposal practices are in compliance with applicable laws and other governmental enactments. DAELIM assumes no obligation or liability in this regard.

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