

High Density Polyethylene

LH4100

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	LH4100
Density	g/cm ³	ASTM D1505	0.948
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	LH4100
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	9,000
ESCR (Condition B, F20)	hr	ASTM D1693	>3,000
OIT(200°C, Al Pan)	min	ASTM D 3895	>40
Pipe Properties (PE 100)	12.4MPa, 20°C 5.5MPa, 80°C 5.0MPa, 80°C	hr	ISO 1167
			> 200 >4,000 >9,000

- 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.

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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)
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High Density Polyethylene

TR402

Description

Characteristics	▪ Good Processabilities ▪ High Stiffness ▪ Excellent Impact Strength
Applications	▪ Water 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	TR402
Density	g/cm ³	ASTM D1505	0.944
Melt Index (190°C, 2.16kg)	g/10min	ASTM D1238	0.11
Vicat Softening Point	°C	ASTM D1525	124
Melting Temperature	°C	ASTM D3418	128
Additives	-	-	AO
Sheet Properties	Unit	Test Method	TR402
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	>40

1. Physical properties reported herein were determined on compression molded specimens prepared in accordance with ASTM D4703

2. Additives : AO(Antioxidant)

3. These are typical properties only and are not to be construed as specifications.

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High Density Polyethylene

TR480BL

Description

Characteristics	▪ PE80 Equivalent Materials ▪ Outstanding Stress Cracking Resistance ▪ Hexene Comonomer ▪ Excellent Processabilities
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	TR480BL
Density	g/cm ³	ASTM D1505	0.954
Melt Index (190°C, 5.0kg)	g/10min	ASTM D1238	0.65
Vicat Softening Point	°C	ASTM D1525	125
Melting Temperature	°C	ASTM D3418	129
Additives	-	-	AO
Sheet Properties	Unit	Test Method	TR480BL
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, F0)	hr	ASTM D1693	>2,000
OIT(200°C, Al Pan)	min	ASTM D 3895	>60

1. Physical properties reported herein were determined on compression molded specimens prepared in accordance with ASTM D4703
2. Additives : AO(Antioxidant)
3. These are typical properties only and are not to be construed as specifications.

High Density Polyethylene

TR418

Description

Characteristics	▪ PE80 Equivalent Materials ▪ Outstanding Stress Cracking Resistance ▪ Hexene Comonomer ▪ Excellent Processabilities
Applications	▪ 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	TR418
Density	g/cm ³	ASTM D1505	0.937
Melt Index (190°C, 2.16kg)	g/10min	ASTM D1238	0.20
Vicat Softening Point	°C	ASTM D1525	123
Melting Temperature	°C	ASTM D3418	127
Additives	-	-	AO
Sheet Properties	Unit	Test Method	TR418
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	6,500
ESCR (Condition B, F0)	hr	ASTM D1693	>2,000
OIT(200°C, Al Pan)	min	ASTM D 3895	>60

1. Physical properties reported herein were determined on compression molded specimens prepared in accordance with ASTM D4703

2. Additives : AO(Antioxidant)

3. These are typical properties only and are not to be construed as specifications.

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High Density Polyethylene

TR418YL

Description

Characteristics	▪ PE80 Equivalent Materials ▪ Outstanding Stress Cracking Resistance ▪ Hexene Comonomer ▪ Excellent Processabilities
Applications	▪ 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	TR418YL
Density	g/cm ³	ASTM D1505	0.939
Melt Index (190°C, 2.16kg)	g/10min	ASTM D1238	0.20
Vicat Softening Point	°C	ASTM D1525	123
Melting Temperature	°C	ASTM D3418	127
Additives	-	-	AO
Sheet Properties	Unit	Test Method	TR418YL
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	6,500
ESCR (Condition B, F0)	hr	ASTM D1693	>2,000
OIT(200°C, Al Pan)	min	ASTM D 3895	>60

1. Physical properties reported herein were determined on compression molded specimens prepared in accordance with ASTM D4703

2. Additives : AO(Antioxidant)

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High Density Polyethylene

TR430

Description

Characteristics	▪ Good Processabilities ▪ High Stiffness ▪ Excellent Impact Strength
Applications	▪ Sewage Pipe
Processing Recommendation	Processing Temperature 190~ 220°C
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	TR430
Density	g/cm ³	ASTM D1505	0.955
Melt Index (190°C, 2.16kg)	g/10min	ASTM D1238	0.14
Vicat Softening Point	°C	ASTM D1525	130
Melting Temperature	°C	ASTM D3418	134
Additives	-	-	AO
Sheet Properties	Unit	Test Method	TR430
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	10,000
OIT(200°C, Al Pan)	min	ASTM D 3895	>40

1. Physical properties reported herein were determined on compression molded specimens prepared in accordance with ASTM D4703
2. Additives : AO(Antioxidant)
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High Density Polyethylene

TR418BL

Description

Characteristics	▪ PE80 Equivalent Materials ▪ Outstanding Stress Cracking Resistance ▪ Hexene Comonomer ▪ Excellent Processabilities
Applications	▪ Geo Sheet
Processing Recommendation	Processing Temperature 190~ 220°C
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	TR418BL
Density	g/cm ³	ASTM D1505	0.947
Melt Index (190°C, 2.16kg)	g/10min	ASTM D1238	0.23
Vicat Softening Point	°C	ASTM D1525	123
Melting Temperature	°C	ASTM D3418	127
Additives	-	-	AO
Sheet Properties	Unit	Test Method	TR418BL
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	6,500
ESCR (Condition B, F0)	hr	ASTM D1693	>2,000
OIT(200°C, Al Pan)	min	ASTM D 3895	>60

1. Physical properties reported herein were determined on compression molded specimens prepared in accordance with ASTM D4703

2. Additives : AO(Antioxidant)

3. These are typical properties only and are not to be construed as specifications.

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Metallocene High Density Polyethylene
DaelimPoly ^M

XP6070

Description

Characteristics	▪ Excellent Impact Strength ▪ Excellent HDT ▪ Excellent Flexural Modulus
Applications	▪ Crate ▪ Pail & Buckets ▪ Housewares & Industrial Parts
Processing Recommendation	Processing Temperature 200~ 250°C
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	XP6070
Density	g/cm ³	ASTM D1505	0.961
Melt Index (190°C, 2.16 kg)	g/10min	ASTM D1238	9.5
Vicat Softening Point	°C	ASTM D1525	129
Melting Temperature	°C	ASTM D3418	134
Additives	-	-	AO
Sheet Properties	Unit	Test Method	XP6070
Tensile Strength at Yield	kg/cm ²	ASTM D638	280
Elongation at Break	%	ASTM D638	> 600
Flexural Modulus	kg/cm ²	ASTM D790	13,000
Izod Impact Strength (Notch, -30°C)	kg-cm/cm	ASTM D256	Non Break
Shrinkage	1/1000	ASTM D 955	19
HDT(0.45MPa)	°C	ASTM D 648	90

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2. Additives : AO(Antioxidant)
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