DaelimPoly

LH4100

Description

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

Physical Properties

Resin Properties	Unit	Test Method	LH4100
Density	g/㎤	ASTM D1505	0.948
Melt Index (190℃, 5.0kg)	g/10min	ASTM D1238	0.31
Vicat Softening Point	℃	ASTM D1525	126
Melting Temperature	℃	ASTM D3418	130
Additives	-	-	AO, PPA
Sheet Properties	**Unit**	**Test Method**	**LH4100**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	9,000
ESCR (Condition B, F20)	hr	ASTM D1693	>3,000
OIT(200℃, Al Pan)	min	ASTM D 3895	>40
Pipe Properties (PE 100) 12.4MPa, 20℃ 5.5MPa, 80℃ 5.0MPa, 80℃	hr	ISO 1167	>200 >4,000 >9,000

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

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DaelimPoly

LH4100BL

Description

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

Physical Properties

Resin Properties	Unit	Test Method	LH4100BL
Density	g/㎤	ASTM D1505	0.959
Melt Index (190℃, 5.0kg)	g/10min	ASTM D1238	0.31
Vicat Softening Point	℃	ASTM D1525	126
Melting Temperature	℃	ASTM D3418	130
Additives	-	-	AO, PPA
Sheet Properties	**Unit**	**Test Method**	**LH4100BL**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	8,000
ESCR (Condition B, F20)	hr	ASTM D1693	>2,000
OIT(200℃, Al Pan)	min	ASTM D 3895	>60
Pipe Properties (PE 100) 12.4MPa, 20℃ 5.5MPa, 80℃ 5.0MPa, 80℃	hr	ISO 1167	>100 >165 >1,000

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

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DaelimPoly

TR402

Description

Characteristics	▪ Good Processabilities ▪ High Stiffness ▪ Excellent Impact Strength
Applications	▪ Water Pipe ▪ Oil & Engineering Pipe
Processing Recommendation	Processing Temperature 190~ 220℃
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	TR402
Density	g/㎤	ASTM D1505	0.944
Melt Index (190℃, 2.16kg)	g/10min	ASTM D1238	0.11
Vicat Softening Point	℃	ASTM D1525	124
Melting Temperature	℃	ASTM D3418	128
Additives	-	-	AO
Sheet Properties	**Unit**	**Test Method**	**TR402**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	8,000
ESCR (Condition B, F20)	hr	ASTM D1693	>2,000
OIT(200℃, 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.

DaelimPoly

TR480BL

Description

Characteristics	▪ PE80 Equivalent Materials ▪ Hexene Comonomer ▪ Outstanding Stress Cracking Resistance ▪ Excellent Processabilities
Applications	▪ Water & Gas Pipe ▪ Oil & Engineering Pipe
Processing Recommendation	Processing Temperature 190~ 220℃
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	TR480BL
Density	g/㎤	ASTM D1505	0.954
Melt Index (190℃, 5.0kg)	g/10min	ASTM D1238	0.65
Vicat Softening Point	℃	ASTM D1525	125
Melting Temperature	℃	ASTM D3418	129
Additives	-	-	AO
Sheet Properties	**Unit**	**Test Method**	**TR480BL**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	8,000
ESCR (Condition B, F0)	hr	ASTM D1693	>2,000
OIT(200℃, 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.

DaelimPoly

TR418

Description

Characteristics	▪ PE80 Equivalent Materials ▪ Hexene Comonomer ▪ Outstanding Stress Cracking Resistance ▪ Excellent Processabilities
Applications	▪ Gas Pipe ▪ Oil & Engineering Pipe
Processing Recommendation	Processing Temperature 190~ 220℃
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	TR418
Density	g/㎤	ASTM D1505	0.937
Melt Index (190℃, 2.16kg)	g/10min	ASTM D1238	0.20
Vicat Softening Point	℃	ASTM D1525	123
Melting Temperature	℃	ASTM D3418	127
Additives	-	-	AO
Sheet Properties	**Unit**	**Test Method**	**TR418**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	6,500
ESCR (Condition B, F0)	hr	ASTM D1693	>2,000
OIT(200℃, 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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DaelimPoly

TR418YL

Description

Characteristics	▪ PE80 Equivalent Materials ▪ Hexene Comonomer ▪ Outstanding Stress Cracking Resistance ▪ Excellent Processabilities
Applications	▪ Gas Pipe ▪ Oil & Engineering Pipe
Processing Recommendation	Processing Temperature 190~ 220℃
Specification data	Complies with FDA 21 CFR 177. 1520

Physical Properties

Resin Properties	Unit	Test Method	TR418YL
Density	g/㎤	ASTM D1505	0.939
Melt Index (190℃, 2.16kg)	g/10min	ASTM D1238	0.20
Vicat Softening Point	℃	ASTM D1525	123
Melting Temperature	℃	ASTM D3418	127
Additives	-	-	AO
Sheet Properties	**Unit**	**Test Method**	**TR418YL**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	6,500
ESCR (Condition B, F0)	hr	ASTM D1693	>2,000
OIT(200℃, 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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DaelimPoly

TR430

Description

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

Physical Properties

Resin Properties	Unit	Test Method	TR430
Density	g/㎤	ASTM D1505	0.955
Melt Index (190℃, 2.16kg)	g/10min	ASTM D1238	0.14
Vicat Softening Point	℃	ASTM D1525	130
Melting Temperature	℃	ASTM D3418	134
Additives	-	-	AO
Sheet Properties	**Unit**	**Test Method**	**TR430**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	10,000
OIT(200℃, 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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DaelimPoly

TR418BL

Description

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

Physical Properties

Resin Properties	Unit	Test Method	TR418BL
Density	g/㎤	ASTM D1505	0.947
Melt Index (190℃, 2.16kg)	g/10min	ASTM D1238	0.23
Vicat Softening Point	℃	ASTM D1525	123
Melting Temperature	℃	ASTM D3418	127
Additives	-	-	AO
Sheet Properties	**Unit**	**Test Method**	**TR418BL**
Tensile Strength at Break	kg/㎠	ASTM D638	400
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	Non Break
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	6,500
ESCR (Condition B, F0)	hr	ASTM D1693	>2,000
OIT(200℃, 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

XP6070

Description

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

Physical Properties

Resin Properties	Unit	Test Method	XP6070
Density	g/㎤	ASTM D1505	0.961
Melt Index (190℃, 2.16 kg)	g/10min	ASTM D1238	9.5
Vicat Softening Point	℃	ASTM D1525	129
Melting Temperature	℃	ASTM D3418	134
Additives	-	-	AO
Sheet Properties	**Unit**	**Test Method**	**XP6070**
Tensile Strength at Yield	kg/㎠	ASTM D638	280
Elongation at Break	%	ASTM D638	>600
Flexural Modulus	kg/㎠	ASTM D790	13,000
Izod Impact Strength (Notch, -30℃)	kg-㎝/㎝	ASTM D256	Non Break
Shrinkage	1/1000	ASTM D 955	19
HDT(0.45MPa)	℃	ASTM D 648	90

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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