

LUCENE MH1700

Metallocene PP Homopolymer

Applications

- Housewares, Toys

Description

- LUCENE **MH1700** is a metallocene-catalyzed polypropylene homopolymer manufactured by LG Chem's unique catalyst technology for injection molding applications. LUCENE **MH1700** exhibits a high flow property combined with a good mechanical property balance.

Typical properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
Density	ASTM D1505	g/cm ³	0.9
MFR (230 °C, 2.16 Kg)	ASTM D1238	g/10min	40
Mechanical⁽²⁾			
Tensile Strength at yield	ASTM D638	Mpa	36
Elongation at Break	ASTM D638	%	< 500
Flexural Modulus	ASTM D790	Mpa	1,600
Izod impact strength (23 °C, notched)	ASTM D256	kg·cm/cm	3.0
Thermal			
Melting temperature (DSC)	-	°C	150

(1) The properties data in this table are typical values, and not guaranteed specification.

(2) Typical resin property values are measured on a standard compression molded specimens

For additional sales, order and technical assistance

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LUCENE MH1850

Metallocene PP Homopolymer

Applications

- Disposable food container(thin wall injection molding)
- Compounding base resin(for automotive part with low TVOC)
- Housewares

Description

- LUCENE **MH1850** is a metallocene-catalyzed polypropylene homopolymer manufactured by LG Chem's unique catalyst technology for thin wall injection molding. The material contains a nucleating agent for fast cycle time and excellent stiffness. LUCENE **MH1850** has less warpage and outstanding organoleptic property (very low VOCs).

Typical properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
Density	ASTM D1505	g/cm ³	0.9
MFR(230℃, 2.16 Kg)	ASTM D1238	g/10min	60
Mechanical⁽²⁾			
Tensile Strength at yield	ASTM D638	Mpa	38
Elongation at Break	ASTM D638	%	< 100
Flexural Modulus	ASTM D790	Mpa	2,000
Izod impact strength (23℃, notched)	ASTM D256	kg·cm/cm	3.0
Thermal			
Melting temperature (DSC)	-	℃	153
Heat deflection temperature (0.45 MPa)	ASTM D648	℃	130

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LUCENE MH7700

Metallocene PP Homo polymer

Applications

- Non-woven Spun bond for hygienic, medical and Industrial , Multi-filament etc.

Description

- LUCENE **MH7700** is a Metallocene-catalyzed polypropylene homo polymer with designed for extrusion of fine fibers and high tenacity with spun bond and multi-filaments. LUCENE **MH7700** is manufactured by LG Chem's unique catalyst technology. This grade is characteristics by very narrow molecular weight distribution (MWD) by organic peroxide free. MH7700 has an excellent spin-ability & draw-ability and outstanding odorless properties (very low VOCs). It is formulated with an anti-gas fading stabilization.

Typical properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
Density	ASTM D1505	g/cm ³	0.9
MFR (230℃ , 2.16 Kg)	ASTM D1238	g/10min	25
Mechanical⁽²⁾			
Tensile Strength at yield	ASTM D638	Mpa	36
Elongation at Break	ASTM D638	%	< 500
Flexural Modulus	ASTM D790	Mpa	1,600
Izod impact strength (23℃ , notched)	ASTM D256	kg·cm/cm	3.0
Thermal			
Melting temperature (DSC)	-	℃	150

(1) The properties data in this table are typical values, and not guaranteed specification.

(2) Typical resin property values are measured on a standard compression molded specimens

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LUCENE MH7800

Metallocene PP Homopolymer

Applications

- PP Compounding base resin for automotive parts, Injection Molding etc.

Description

- LUCENE **MH7800** is a Metallocene-catalyzed polypropylene homopolymer manufactured by LG Chem's unique catalyst technology. LUCENE **MH7800** has an excellent stiffness, less warpage long-term heat resistance and outstanding organoleptic properties (very low VOCs).

Typical properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
Density	ASTM D1505	g/cm ³	0.9
MFR (230°C, 2.16 Kg)	ASTM D1238	g/10min	100
Mechanical⁽²⁾			
Tensile Strength at yield	ASTM D638	Mpa	37
Elongation at Break	ASTM D638	%	< 50
Flexural Modulus	ASTM D790	Mpa	1,700
Izod impact strength (23°C, notched)	ASTM D256	kg-cm/cm	3.0
Thermal			
Melting temperature (DSC)	-	°C	150

(1) The properties data in this table are typical values, and not guaranteed specification.

(2) Typical resin property values are measured on a standard compression molded specimens

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LUCENE MH7900

Metallocene PP Homopolymer

Applications

- PP Compounding base resin for automotive parts, Injection Molding etc.

Description

- LUCENE **MH7900** is a Metallocene-catalyzed polypropylene homopolymer manufactured by LG Chem's unique catalyst technology. LUCENE **MH7900** has an excellent stiffness, less warpage and outstanding organoleptic properties (very low VOCs).

Typical properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
Density	ASTM D1505	g/cm ³	0.9
MFR (230°C, 2.16 Kg)	ASTM D1238	g/10min	150
Mechanical⁽²⁾			
Tensile Strength at yield	ASTM D638	Mpa	37
Elongation at Break	ASTM D638	%	< 50
Flexural Modulus	ASTM D790	Mpa	1,700
Izod impact strength (23°C, notched)	ASTM D256	kg-cm/cm	3.0
Thermal			
Melting temperature (DSC)	-	°C	150

(1) The properties data in this table are typical values, and not guaranteed specification.

(2) Typical resin property values are measured on a standard compression molded specimens

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LUCENE **MH7900**

Metallocene based MH7900 grade have been designed for PP compound base resin, especially for automotive parts required very low VOC characteristics. The extremely low extractable content is favorable for the best organoleptic properties. This can be seen below when the VOC & FOG value of MH7900 are approx. 15 times lower than conventional Ziegler-Natta polypropylene with the same melt flow rate, hence a significant reduction of off-gas when processing as well as on end products.

