

Technical Data Sheet

Petrothene LM600700

High Density Polyethylene



Product Description

Petrothene LM600700 resin exhibits very low taste and odor characteristics as well as good rigidity. Typical applications include water, milk and juice bottles.

Regulatory Status

For regulatory compliance information, see *Petrothene* LM600700 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bottles For Consumer Goods; General Sheet Extrusion
Market	Rigid Packaging
Processing Method	Extrusion Blow Molding; Sheet and Profile Extrusion
Attribute	High Stiffness; Low Taste Transfer

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.80	g/10 min	0.80	g/10 min	ASTM D1238
Density, (23 °C)	>=0.960	g/cm ³	>=0.960	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	225000	psi	1550	MPa	ASTM D790
Tensile Strength at Yield	4600	psi	31.7	MPa	ASTM D638
Tensile Elongation at Break	>400	%	>400	%	ASTM D638
Impact					
Tensile Impact Strength	120	ft-lb/in ²	252	kJ/m ²	ASTM D1822
Hardness					
Shore Hardness, (Shore D)	69		69		ASTM D2240
Thermal					
Vicat Softening Temperature	264	°F	129	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	180	°F	82	°C	ASTM D648

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

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Recipient Tracking #:
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Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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- (ii) applications involving permanent implantation into the body;
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