Technical Data Sheet

Moplen EP400M

Polypropylene, Impact Copolymer

Product Description

Moplen EP400M is a polypropylene impact copolymer with optimized balance of stiffness and toughness, high impact strength at low temperature, low warpage, good weld strength in battery casing. Typical applications include moulding of parts for electrical appliances, containers, battery casing.

Regulatory Status

For regulatory compliance information, see *Moplen* EP400M Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Restricted
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand
Application	Appliances; Battery Cases; Containers
Market	Consumer Products; Electrical / Electronics; Rigid Packaging
Processing Method	Injection Molding
Attribute	Good Impact Resistance; Good Stiffness; Impact Copolymer; Low Warpage

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	9	g/10 min	ASTM D1238
Density	0.90	g/cm³	ASTM D792
Mechanical			
Flexural Modulus	1100	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Impact			
Notched Izod Impact Strength			
(23 °C)	150	J/m	ASTM D256
(-20 °C)	60	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	90		ASTM D785
Thermal			
Vicat Softening Point	150	°C	ASTM D1525
Deflection Temperature Under Load, (0.46 N/mm²)	100	°C	ASTM D648

Notes

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

Company Information

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

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Users should review the applicable Safety Data Sheet before handling the product.

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(i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
(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.

The product(s) may not be used in:
(i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
(ii) applications involving permanent implantation into the body;
(iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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