



Moplen EP2838

Polypropylene, Impact Copolymer

Product Description

Moplen EP2838 is a heterophasic copolymer suitable for production of beverage closures using both compression and injection moulding technologies. This resin offers a good balance of stiffness and impact strength. The resin is nucleated and additivated with both slip and antistatic agent for easy opening of closures. Other injection moulding applications may include housewares and medium size containers.

Product Characteristics

Status	Development
Test Method used	ISO
Availability	Asia-Pacific, Africa-Middle East
Processing Methods	Compression Molding, Injection Molding
Features	Good Impact Resistance , Nucleated, High Slip, Good Stiffness
Typical Customer Applications	Caps & Closures, Housewares, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	6.0	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1500	MPa
Tensile Stress at Yield	ISO 527-1, -2	30	MPa
Tensile Strain at Break	ISO 527-1, -2	> 50	%
Tensile Strain at Yield	ISO 527-1, -2	7	%
Impact			
Charpy notched impact strength	ISO 179		
(23°C, Type 1, Edgewise, Notch A)		5.5	kJ/m ²
(0°C, Type 1, Edgewise, Notch A)		3.5	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		2.5	kJ/m ²
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	64	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	100	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		80	°C
(A50 (50°C/h 10N))		151	°C

Notes

Typical properties; not to be construed as specifications.

LyondellBasell markets this product through the following entities:

- Equistar Chemicals, LP
- Basell Sales & Marketing Company B.V.
- Basell Asia Pacific Limited
- Basell International Trading FZE
- LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyb.com/>.

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This product(s) may not be used in:

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(ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) 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; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications.

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

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

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