



Moplen EP442M

Polypropylene, Impact Copolymer

Product Description

LyondellBasell Australia's Polypropylene grade EP442M is a medium flow impact copolymer and is formulated with a nucleant additive package. EP442M is designed for injection moulding applications requiring good impact strength and enhanced rigidity.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Asia-Pacific, Australia/NZ
Features	Impact Copolymer, High Flow , High Impact Resistance , Low Temperature Impact Resistance, Good Moldability , High Stiffness
Typical Customer Applications	Appliances, Crates, Caps & Closures, Other Industrial

Typical Properties	Method	Value Unit
Physical		
Density (Method D)	ISO 1183	0.90 g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	8.0 g/10 min
Mechanical		
Tensile Stress at Yield	ISO 527-1, -2	24.5 MPa
Flexural modulus	ISO 178	1350 MPa
Impact		
Notched izod impact strength	ISO 180	
(0 °C, Type 1, Notch A)		5.5 kJ/m ²
(-20 °C, Type 1, Notch A)		4.5 kJ/m ²
(23 °C, Type 1, Notch A)		10 kJ/m ²
Hardness		
Shore hardness (Shore D)	ISO 868	75
Thermal		
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90 °C
Vicat softening temperature (Method A)	ISO 306	150 °C

Notes

Typical properties; not to be construed as specifications.

Further Information

For safety or regulatory compliance information refer to the relevant MSDS or RAPIDS.

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LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP
 Basell Sales & Marketing Company B.V.
 Basell Asia Pacific Limited
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Users should review the applicable Material Safety Data Sheet before handling the product.

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Release Date: 14 Feb 2012

