



Moplen EP301E

Polypropylene, Impact Copolymer

Product Description

LyondellBasell Australia's Polypropylene grade EP301E is a very low flow impact copolymer with a conventional molecular weight distribution and is formulated with a general-purpose additive package. EP301E is designed for extrusion and blow-moulding applications requiring good melt strength and good impact strength at low part weight. End use products typically made from EP301E include blow-moulded articles, extruded sheet, corrugated board and extruded profiles.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Asia-Pacific, Australia/NZ
Features	Impact Copolymer, Low Flow , Good Impact Resistance , Good Melt Strength
Typical Customer Applications	Blow Moulding Applications, Panels & Profiles

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	0.80 g/10 min
Mechanical		
Tensile Stress at Yield	ISO 527-1, -2	25.0 MPa
Flexural modulus	ISO 178	1150 MPa
Impact		
Notched izod impact strength	ISO 180	
(23 °C, Type 1, Notch A)		20 kJ/m ²
(0 °C, Type 1, Notch A)		7.0 kJ/m ²
(-20 °C, Type 1, Notch A)		4.0 kJ/m ²
Hardness		
Shore hardness (Shore D)	ISO 868	68
Thermal		
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	77 °C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	50 °C
Vicat softening temperature (Method A)	ISO 306	150 °C

Additional Properties

Falling Weight Impact Strength @ -40°C, BS2782-306b: 11 J

Notes

Typical properties; not to be construed as specifications.

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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
 Basell International Trading FZE
 LyondellBasell Australia Pty Ltd

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

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