

# Moplen EP301E

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

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.

General Information			
Features	Good Impact Resistance		
	Good Melt Strength		
	Impact Copolymer		
	Low Flow		
Uses	Blow Molding Applications		
	Corrugated Sheet		
	Profiles		
	Reinforced Panels		
	Sheet		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Flexural Modulus	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-20°C	4.0	kJ/m <sup>2</sup>	
0°C	7.0	kJ/m <sup>2</sup>	
23°C	20	kJ/m <sup>2</sup>	
Falling Dart Impact (-40°C)	11.0	J	BS 2782 306B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	77.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/A

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