



Moplen EP201N

Polypropylene, Impact Copolymer

Product Description

LyondellBasell Australia's polypropylene grade EP201N is a medium/high flow impact copolymer with a modified molecular weight distribution and is formulated with a general-purpose additive package. EP201N is designed for injection moulding applications requiring excellent mould filling properties, low warpage, low stress levels, good surface properties, reduced cycle times and a good impact/rigidity balance. End use products typically made from EP201N include domestic appliances and industrial mouldings.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Asia-Pacific, Australia/NZ
Features	Impact Copolymer, Fast Cycle (Production) , High Flow , Good Impact Resistance , Good Moldability , Medium Rigidity , Low Warpage
Typical Customer Applications	Appliances, 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	13 g/10 min
Mechanical		
Tensile Stress at Yield	ISO 527-1, -2	23.0 MPa
Flexural modulus	ISO 178	1000 MPa
Impact		
Notched izod impact strength	ISO 180	
(-20 °C, Type 1, Notch A)		3.0 kJ/m ²
(0 °C, Type 1, Notch A)		3.5 kJ/m ²
(23 °C, Type 1, Notch A)		5.0 kJ/m ²
Hardness		
Shore hardness (Shore D)	ISO 868	66
Thermal		
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70 °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: 10 J Suitable for the production of articles for food contact use. As supplied in natural form, meets the requirements of Australian Standard 2070 - 1999, "Plastics Materials for Food Contact Use". The base polymer complies with the United States of America Food and Drug Administration (FDA) Code of Federal Regulations 21 CFR177.1520 (a)(3)(i) and (c)3.1a for conditions of use C through to H in CFR 176.170(c), table 2. All other components used in the formulation meet the relevant FDA requirements for use in food contact applications. Conformity with these requirements should not be assumed for other variants and should be investigated with the appropriate supply source.

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

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