



Moplen EP203L

Polypropylene, Impact Copolymer

Product Description

LyondellBasell Australia's polypropylene grade EP203L is a medium flow impact copolymer with a conventional molecular weight distribution and is formulated with a general-purpose additive package. EP203L is designed for injection moulding applications requiring consistent processability, good stiffness, outstanding impact strength, and exceptional impact strength retention at low temperatures. End use products typically made from EP203L include crates, pails, pail lids, other industrial mouldings and closures.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Asia-Pacific, Australia/NZ
Processing Method	Injection Molding
Features	Impact Copolymer, Medium Flow, Low Temperature Impact Resistance, Good Processability
Typical Customer Applications	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	5.0 g/10 min
Mechanical		
Tensile Stress at Yield	ISO 527-1, -2	20.0 MPa
Flexural modulus	ISO 178	850 MPa
Impact		
Notched izod impact strength	ISO 180	
(0 °C, Type 1, Notch A)		5.0 kJ/m ²
(23 °C, Type 1, Notch A)		15 kJ/m ²
(-20 °C, Type 1, Notch A)		4.0 kJ/m ²
Hardness		
Shore hardness (Shore D)	ISO 868	66
Thermal		
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	65 °C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	50 °C
Vicat softening temperature (Method A)	ISO 306	140 °C

Additional Properties

Falling Weight Impact Strength @ -55°C, BS2782-306b: 13 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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