

Technical Data Sheet

Moplen EP300M



Polypropylene, Impact Copolymer

Product Description

Moplen EP300M is a heterophasic copolymer for injection moulding. The product offers an excellent balance of stiffness, impact strength and processability. Typical applications for Moplen EP300M are thin walled packaging, housewares and automotive parts.

Regulatory Status

For regulatory compliance information, see Moplen EP300M [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

| | |
|--------------------------|---|
| Status | Commercial: Active |
| Availability | Africa-Middle East; Europe |
| Application | Crates; Housewares; Industrial |
| Market | Automotive; Compounding; Consumer Products; Rigid Packaging |
| Processing Method | Compounding; Injection Molding |
| Attribute | Good Impact Resistance; Good Processability; Good Stiffness |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 7 | g/10 min | ISO 1133-1 |
| Density | 0.89 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Flexural Modulus | 1000 | MPa | ISO 178 |
| Tensile Modulus | 900 | MPa | ISO 527-1, -2 |
| Tensile Stress at Break | 17 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 21.5 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 400 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 7 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 45 | kJ/m ² | ISO 179 |
| (0 °C) | 9 | kJ/m ² | ISO 179 |
| (-20 °C, Type 1, Edgewise, Notch A) | 6 | kJ/m ² | ISO 179 |
| Thermal | | | |
| Vicat Softening Temperature, (A50) | 143 | °C | ISO 306 |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 77 | °C | ISO 75B-1, -2 |
| DSC Melting Point | 163 | °C | DSC |

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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