

Technical Data Sheet

Moplen EP222D



Polypropylene, Impact Copolymer

Product Description

LyondellBasell has developed the new *Moplen* grade EP222D. This new grade is produced using a non-phthalate catalyst system. *Moplen* EP222D offers good processability, particularly on blown and cast lines. This polypropylene heterophasic copolymer exhibits high impact, good puncture, good tear resistance, high seal strength and seal integrity, and its additive package makes it suitable for the process of siliconization.

Regulatory Status

For regulatory compliance information, see *Moplen* EP222D [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

| | |
|--------------------------|---|
| Status | Commercial: Active |
| Availability | Africa-Middle East; Europe |
| Application | Adhesive Tape; Containers; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Release Liner; Surface Protection Film |
| Market | Flexible Packaging |
| Processing Method | Blown Film; Cast Film; Extrusion Blow Molding; Pipe |
| Attribute | Good Processability; Impact Copolymer; Low Flow |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 0.9 | g/10 min | ISO 1133-1 |
| Density | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Flexural Modulus | 1075 | MPa | ISO 178 |
| Tensile Stress at Break | 31 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 26 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | >500 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 14 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C) | 70 | kJ/m ² | ISO 179-1/1eA |
| (-20 °C) | 6 | kJ/m ² | ISO 179-1/1eA |
| Thermal | | | |
| Vicat Softening Temperature, (A/50 N) | 152 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 83 | °C | ISO 75B-1, -2 |

Notes

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

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

Company Information

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

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