Moplen HP515M

Polypropylene Homopolymer LyondellBasell Industries

Message:

Moplen HP515M is a polypropylene homopolymer developed for the production of transparent cast film. It is formulated with slip and anti-blocking agents. Films made with Moplen HP515M show very high transparency, a high gloss and a good printability after corona treatment. Main applications are the production of shopping bags and packaging of snacks, pasta, bakery products, books, blankets, hosiery and shirts.

Moplen HP515M is suitable for food contact.

For regulatory information please refer to Moplen HP515M Product Stewardship Bulletin (PSB).

| General Information | | | |
|---------------------------------------|-------------------------|----------|-------------|
| Additive | Antiblock | | |
| | Slip | | |
| | | | |
| Features | Antiblocking | | |
| | Excellent Printability | | |
| | Food Contact Acceptable | | |
| | High Clarity | | |
| | High Gloss | | |
| | Homopolymer | | |
| | Slip | | |
| Uses | Bags | | |
| | Cast Film | | |
| | Film | | |
| | Food Packaging | | |
| | Packaging | | |
| | | | |
| Processing Method | Cast Film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 | | | |
| kg) | 9.0 | g/10 min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D) | 70 | | ISO 868 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1250 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 30.0 | MPa | ISO 527-2 |
| Tensile Strain | | | ISO 527-2 |
| Yield | 11 | % | |
| Break | 570 | % | |
| Coefficient of Friction | | | ASTM D1894 |

| vs. Itself - Dynamic | 0.25 | | |
|--|---|------------------|---|
| vs. Itself - Static | 0.30 | | |
| Films | Nominal Value | Unit | Test Method |
| Secant Modulus - MD ¹ (50 μm) | 800 | MPa | ASTM D882 |
| Tensile Strength - MD ² | | | ASTM D882 |
| Yield,50 μm | 21.0 | MPa | |
| Break, 50 μm | 32.0 | MPa | |
| Tensile Elongation - MD ³ | | | ASTM D882 |
| Yield, 50 μm | 5.0 | % | |
| Break, 50 μm | 610 | % | |
| | | | |
| Thermal | Nominal Value | Unit | Test Method |
| Thermal Heat Deflection Temperature (0.45 MPa, | Nominal Value | Unit | Test Method |
| | Nominal Value 85.0 | Unit °C | Test Method ISO 75-2/B |
| Heat Deflection Temperature (0.45 MPa, | | | |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 85.0 | °C | ISO 75-2/B |
| Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature | 85.0 153 | °C | ISO 75-2/B ISO 306/A50 |
| Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical | 85.0 153 Nominal Value | °C | ISO 75-2/B ISO 306/A50 Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 100 μm) | 85.0 153 Nominal Value 88 | °C °C Unit | ISO 75-2/B ISO 306/A50 Test Method ASTM D2457 |
| Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 100 µm) Haze (100 µm) | 85.0 153 Nominal Value 88 | °C °C Unit | ISO 75-2/B ISO 306/A50 Test Method ASTM D2457 |
| Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 100 µm) Haze (100 µm) NOTE | 85.0 153 Nominal Value 88 1.5 | °C °C Unit | ISO 75-2/B ISO 306/A50 Test Method ASTM D2457 |

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