

MarFlex® 5563

Low Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

MarFlex® 5563 is a Low Density Polyethylene material. It is available in Latin America or North America for blown film or cast film.

Important attributes of MarFlex® 5563 are:

- Antiblock
- Good Aesthetics
- Good Processability
- Good Sealability
- Impact Resistant
- Typical applications include:
 - Bags/Liners
 - Coating Applications
 - Film
 - Packaging
 - Wrap

| General Information | | | |
|---------------------|------------------------|-------------------|-------------|
| Additive | Antiblock (3500 ppm) | | |
| | Slip (850 ppm) | | |
| Features | Antiblocking | | |
| | Good Heat Seal | | |
| | Good Impact Resistance | | |
| | Good Processability | | |
| | Low Flow | | |
| | Opticals | | |
| | Slip | | |
| Uses | Film | | |
| | Laminates | | |
| | Liners | | |
| | Packaging | | |
| | Shrink Wrap | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Blown Film | | |
| | Cast Film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.925 | g/cm ³ | ASTM D1505 |

| | | | |
|---|----------------------|--|--------------------|
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.3 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction (Blown Film) | 0.15 | | ASTM D1894 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 32 | μm | |
| Oxygen Transmission Rate (32 μm, Blown Film) | 4800 | cm ³ /m ² /24 hr | ASTM D3985 |
| Water Vapor Transmission Rate (32 μm, Blown Film) | 16 | g/m ² /24 hr | ASTM F1249 |
| Dart Drop Test - Blown Film (31.8 μm) | 34.7 | kN/m | ASTM D1709 |
| Elmendorf Tear Strength ¹ | | | ASTM D1922 |
| MD : 31.8 μm | 88.8 | kN/m | |
| TD : 31.8 μm | 88.8 | kN/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 99.0 | °C | ASTM D1525 |
| Melting Temperature | 111 | °C | DSC |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (60°, 31.8 μm, Blown Film) | 116 | | ASTM D2457 |
| Haze (31.8 μm, Blown Film) | 5.5 | % | ASTM D1003 |
| NOTE | | | |
| 1. | Blown Film | | |

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