

Mapolene 50100 is a high molecular weight high density polyethylene resin with good melt strength, excellent stress crack resistance, good rigidity, and excellent impact strength even at low temperatures. Typical blow molded applications for this resin include 55-gallon drums, fuel containers and agricultural chemical tanks. Typical thermoformed sheet applications include pallets, automotive dunnage and truck bedliners.

Mapolene 50100

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|------------------------------------|---------|------|
| Polyethylene | HLMI | 10 |
| HMW Blow Molding / Sheet Extrusion | Density | .949 |

| Properties ¹ | ASTM | Units | Value |
|---|------------|-------------------|---------|
| HLMI (190°C/21.6 kg) | ASTM D1238 | g/10 min | 10 |
| Density | ASTM D1505 | g/cm ³ | .949 |
| Tensile Strength at Yield (2 in/min) | ASTM D638 | psi | 3600 |
| Elongation at Break (2 in/min) | ASTM D638 | % | >600 |
| Flexural Modulus | ASTM D790 | psi | 170,000 |
| ESCR Condition B, F ₅₀ (100% Igepal) | ASTM D1693 | h | >600 |
| Brittleness Temperature | ASTM D 746 | °F | <-131 |

This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

¹Properties will vary and are not to be used for specification purposes.