

Petrothene® M2512

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE M 2512 is a film grade resin that exhibits good optics, good impact strength and good tensile properties and stiffness. This resin is typically used for general-purpose packaging.

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Impact Resistance | | |
| | Good Stiffness | | |
| | Opticals | | |
| Uses | Film | | |
| | Packaging | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Pellets | | |
| Processing Method | Film Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.925 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.2 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 25 | µm | ASTM D882 |
| Secant Modulus | | | |
| 1% Secant, MD : 25 µm | 221 | MPa | |
| 1% Secant, TD : 25 µm | 262 | MPa | ASTM D882 |
| Tensile Strength | | | |
| MD : Break, 25 µm | 23.1 | MPa | |
| TD : Break, 25 µm | 19.3 | MPa | ASTM D882 |
| Tensile Elongation | | | |
| MD : Break, 25 µm | 330 | % | |
| TD : Break, 25 µm | 500 | % | ASTM D1709 |
| Dart Drop Impact (25 µm) | 85 | g | |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (60°, 25.4 µm) | 100 | | ASTM D2457 |
| Haze (25.4 µm) | 7.5 | % | ASTM D1003 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 182 | °C | |

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