

## LyondellBasell Petrothene® NA271009 Medium Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Film Grade

### Material Notes:

**Applications**PETROTHENE NA 271-009 is a medium density polyethylene resin designed to overwrap film applications. NA 271-009 exhibits good film optics and high stiffness. **Regulatory Status**NA 271-009 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. **Processing Techniques**Specific recommendations for processing NA 271-009 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative. **Physical Properties**These are typical values and not to be construed as specific product limits. Film gauge: 1.25 mils. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-NA271009-Medium-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA271009-Medium-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	1.2 g/10 min	1.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	400 %	400 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Dart Drop Test	60.0 g	0.132 lb	F <sub>50</sub> ; ASTM D1709
Film Tensile Strength at Break, MD	24.8 MPa	3600 psi	ASTM D882
Film Tensile Strength at Break, TD	22.1 MPa	3200 psi	ASTM D882
1% Secant Modulus, MD	331 MPa	48000 psi	ASTM D882
1% Secant Modulus, TD	379 MPa	55000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	90 %	90 %	at 60°; ASTM D2457

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