

Petrothene®

# NA143

Low Density Polyethylene

Film Extrusion Grade

Melt Index 2.0 Density 0.921

## Applications

PETROTHENE NA143 is a series of homopolymer resins for blown film. Applications include stiff liners. NA143 exhibits good processability and clarity.

## Regulatory Status

The basic resin NA143 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 regarding the suitability of specific products for specific applications.

## Processing Techniques

Specific recommendations for processing NA143 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

## Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	2.0	g/10 min	D 1238
Density	0.921	g/cc	D 1505
Vicat Softening Point	93	°C	D 1525
Film**			
Haze	6.0	%	D 1003
Gloss, 45°	70		D 2457
Tensile Strength, MD (TD)	3,400 (2,500)	psi	D 882
Elongation, MD (TD)	300 (500)	%	D 882
Dart Drop Impact Strength, F <sub>50</sub>	90	g	D 1709
1% Secant Modulus, MD (TD)	28,000 (32,000)	psi	E 111
Elmendorf Tear Strength, MD (TD)	380 (200)	g	D 1922
<b>Molding</b>			
Tensile Strength <sup>1</sup>	1,720	psi	D 638
Elongation @ Break	650	%	D 638

<b>Product</b>	<b>NA143063</b>
Slip	Medium
Antiblock	Medium

\* These are typical values and not to be construed as specific product limits.

\*\* Data obtained from film produced in a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 375°F (191°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 130 lb/hr.

<sup>1</sup> Data derived from Type IV specimen, 75 mil plaque, @ 20" min.

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