

Technical Data Sheet



Petrothene NA443023

Ethylene Vinyl Acetate

Product Description

Petrothene NA443023 is a LDPE/EVA copolymer resin selected by customers for high impact/high clarity packaging applications.

Regulatory Status

For regulatory compliance information, see [Petrothene NA443023 Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Clarity Film; Film Wrap; Lamination Film; Specialty Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	1.2	g/10 min	1.2	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.927	g/cm³	0.927	g/cm³	ASTM D1505
Vinyl Acetate Content	4.5	%	4.5	%	LYB Method
Film					
Dart Drop Impact Strength, F50	150	g	150	g	ASTM D1709
Tensile Strength at Break					
MD	4000	psi	27.6	MPa	ASTM D882
TD	2900	psi	20.0	MPa	ASTM D882
Tensile Elongation at Break					
MD	350	%	350	%	ASTM D882
TD	550	%	550	%	ASTM D882
1% Secant Modulus					
MD	20000	psi	138	MPa	ASTM D882
TD	18000	psi	124	MPa	ASTM D882
Elmendorf Tear Strength					
MD	140	g	140	g	ASTM D1922
TD	200	g	200	g	ASTM D1922
Thermal					
Vicat Softening Temperature	190	°F	88	°C	ASTM D1525
Optical					
Haze	3	%	3	%	ASTM D1003
Gloss, (45°)	77		77		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method
Processing Parameters					

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Melt Temperature	330 - 380 °F	166 - 194 °C
Blow-Up Ratio	1.7 - 3.0 BUR	1.7 - 3.0 BUR

Notes

Film data obtained from sample produced on a 3 1/2" (89mm) 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 lbs/hr.

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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