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.

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