Technical Data Sheet

Petrothene NA490177

Ethylene Vinyl Acetate

Product Description

Petrothene NA490177 is a LDPE/EVA copolymer resin selected by customers for use in specialty films. NA490177 contains antiblock and is used to produce film with excellent puncture resistance, impact strength, heat sealability, clarity and low temperature flexibility. Typical applications include frozen food packaging, bundling and heavy-duty bags.

Application	Agriculture Film; Bags & Pouches; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Liner Film; Sealants; Shrink Film; Stretch Hood
Market	Flexible Packaging
Processing Method	Blown Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.30	g/10 min	0.30	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Product Density, (23 °C)	0.926	g/cm³	0.926	g/cm³	ASTM D1505
Vinyl Acetate Content	4.5	%	4.5	%	LYB Method
Film					
Dart Drop Impact Strength, F50	320	g	320	g	ASTM D1709
Tensile Strength at Break					
MD	3200	psi	22.1	MPa	ASTM D882
TD	3000	psi	20.7	MPa	ASTM D882
Tensile Elongation at Break					
MD	370	%	370	%	ASTM D882
TD	550	%	550	%	ASTM D882
1% Secant Modulus					
MD	19000	psi	131	MPa	ASTM D882
TD	23000	psi	159	MPa	ASTM D882
Elmendorf Tear Strength					
MD	150	g	150	g	ASTM D1922
TD	250	g	250	g	ASTM D1922
Thermal					
Vicat Softening Temperature	190	°F	88	°C	ASTM D1525
Additive					
Slip	None		None		LYB Method
Antiblock	6000	ppm	6000	ppm	LYB Method