

Technical Data Sheet

Petrothene NA340163

Ethylene Vinyl Acetate



Product Description

Petrothene NA340 is a series of LDPE/EVA copolymer resins selected by customers for film applications that require clarity and good impact strength. Typical applications include heavy produce, textile, frozen food packaging and sealant films.

Application	Clarity 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)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Vinyl Acetate Content	4.0	%	4.0	%	LYB Method
Film					
Dart Drop Impact Strength, F50	140	g	140	g	ASTM D1709
Tensile Strength at Break					
MD	3700	psi	25.5	MPa	ASTM D882
TD	3100	psi	21.4	MPa	ASTM D882
Tensile Elongation at Break					
MD	340	%	340	%	ASTM D882
TD	500	%	500	%	ASTM D882
1% Secant Modulus					
MD	21000	psi	145	MPa	ASTM D882
TD	24000	psi	165	MPa	ASTM D882
Elmendorf Tear Strength					
MD	180	g	180	g	ASTM D1922
TD	250	g	250	g	ASTM D1922
Thermal					
Vicat Softening Temperature	203	°F	95	°C	ASTM D1525
Optical					
Haze	4.0	%	4.0	%	ASTM D1003
As measured on NA340141 (high slip, medium antiblock).					
Gloss, (45°)	75		75		ASTM D2457
As measured on NA340141 (high slip, medium antiblock).					
Additive					
Slip	500	ppm	500	ppm	LYB Method
Antiblock	2000	ppm	2000	ppm	LYB Method



Processing Parameters

Melt Temperature

330 - 375 °F

165 - 191 °C

Product	Slip(ppm)	Antiblock (ppm)
NA340013	None	None
NA340141	1000	1700
NA340163	500	2000
NA340185	850	3000
NA340212	None	2000

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.

