

Petrothene

NA373

Low Density Polyethylene

Cast/Blown Film Grade

Melt Index 3.0 Density 0.924



Applications

Petrothene NA373 is a series of homopolymer resins selected by customers for use in household film and other applications that require high clarity and good impact strength combined with low COF.

Regulatory Status

The basic NA373 resin 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. For more information, please contact your Equistar product safety representative.

Processing Techniques

Specific recommendations for processing NA373 resins can only be made when the processing conditions, equipment and end use are known.

Typical Properties

Nominal Property	Value	Units	ASTM Test Method
Melt Index	3.0	g/10 min	D1238
Base Resin Density	0.924	g/cc	D1505
Film	Cast*	Blown**	
Haze	3.4	5.4	% D1003
Gloss, 45°	77	70	units D2457
Tensile Strength @ Yield, MD (TD)	1,360 (1,350)	1,580 (1,550)	psi D882
Tensile Strength @ Break, MD (TD)	4,220 (2,470)	2,700 (2,500)	psi D882
Elongation, MD (TD)	230 (610)	200 (500)	% D882
Dart Drop Impact Strength, F ₅₀	110	65	g D1709
1% Secant Modulus, MD (TD)	30,200 (28,600)	(23,000 (25,000)	psi D882
Elmendorf Tear Strength, MD (TD)	300 (160)	270 (170)	g D1922
Product	NA373242	NA373244	
Slip (ppm)	3,900	1,600	
Antiblock (ppm)	None	6,000	

* Data obtained on 1.25 mil cast film prepared from NA373240. Melt Temperature: 500°F

** Data obtained on 1.25 mil blown film prepared from NA373240. Melt Temperature: 375°F, Frost Line: 10 in.

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