

Petrothene®

NA373

Low Density Polyethylene

Cast/Blown Film Grade

Melt Index 0.5 Density 0.924

Applications

PETROTHENE NA373 is a series of homopolymer resins designed for household film and other applications that require high clarity and good impact strength combined with low COF.

Regulatory Status

The NA373 resins meet 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. Contact your Equistar sales representative for further information regarding the suitability of specific products for specific applications.

Processing Techniques

Specific recommendations for processing NA373 resins can only be made when the processing conditions, equipment and end use are known. For further suggestions please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value		Units	ASTM Test Method
Melt Index	3.0		g/10 min	D 1238
Density	0.924		g/cc	D 1505
Film*	<u>Cast</u>	<u>Blown</u>		
Haze	3.4	5.4	%	D 1003
Gloss, 45°	77	70	units	D 2457
Tensile Strength @ Yield, MD (TD)	1,360 (1,350)	1,580 (1,550)	psi	D 882
Tensile Strength @ Break, MD (TD)	4,220 (2,470)	2,700 (2,500)	psi	D 882
Elongation, MD (TD)	230 (610)	200 (500)	%	D 882
Dart Drop Impact Strength, F ₅₀	110	65	g	D 1709
1% Secant Modulus, MD (TD)	30,200 (28,600)	(23,000 (25,000)	psi	D 882
Elmendorf Tear Strength, MD (TD)	300 (160)	270 (170)	g	D 1922
Product	<u>NA373240</u>	<u>NA37322X01</u>	<u>NA373244</u>	
Slip	1,800	3,900	1,600	
Antiblock	None	None	6,000	

These are typical values and not to be construed as specific product limits.

* 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., BUR: 2.2:1.

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