

Petrothene

NA270001

Low Density Polyethylene
Extrusion Grade

Melt Index: 70 Density: 0.920



Applications

Petrothene NA270001 is a high flow, low density polyethylene resin selected by customers for use in the injection molding of caps, closures, other specialty applications or cast film. These resins exhibit an excellent balance of toughness, softness, dimensional stability and processability.

Regulatory Status

The base resin NA270001 meets the requirements of the Food and Drug Administration, 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 product safety representative for more information.

Processing Techniques

Specific recommendations for processing NA270001 can be made only when the end use applications, required properties and processing equipment are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	70	g/10 min	D1238
Density	0.920	g/cc	D1505
Tensile Strength @ Break ¹	1,120 (8)	psi (MPa)	D638
Tensile Strength @ Yield ¹	1,650 (11)	psi (MPa)	D638
Elongation @ Yield ¹	11	%	D638
1% Secant Modulus ²	23,300 (160)	psi (MPa)	D790
2% Secant Modulus ²	19,750 (136)	psi (MPa)	D790
Hardness, Shore D	47		D2280

¹ Crosshead Speed – 20 in/min

² Crosshead Speed - ½ in/min

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