

Petrothene®

NA 870-252

Low Density Polyethylene
Injection Molding Grade
Melt Index 38 Density 0.922

Applications

PETROTHENE NA 870-252 resin exhibits an excellent balance of toughness and softness, with excellent dimensional stability. Typical applications include caps and closures, housewares, toys, containers and novelty items.

Certification

NA 870-252 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. Contact your Equistar sales representative for more information.

Processing Techniques

Specific recommendations for processing NA 870-252 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Suggested Start-up Conditions

Extruder Zone	Rear	Center	Front	Nozzle
Cylinder Temperature	325°F	350°F	350°F	350°F

Physical Properties

Property	Value	Units	ATM Test Method
Melt Index	38	g/10 min.	D 1238
Density	0.922	g/cm ³	D 1505
Tensile Strength @ Break ¹	1,300	psi	D 638
Tensile Strength @ Yield ¹	1,850	psi	D 638
Elongation @ Yield ¹	13	%	D 638
1% Secant Modulus ²	33,000	psi	D 790
2% Secant Modulus ²	27,000	psi	D 790
Vicat Softening Point	86	°C	D 1525
Hardness, Shore D	41		D 2280
Low Temperature Brittleness, F ₅₀ ³	-25	°C	D 746

¹ Crosshead Speed – 20 in/min

² Crosshead Speed - ½ in/min

³ Test method has been found useful for specification purposes, but does not necessarily indicate the lowest temperature at which the material may be used.

The information on this document is, to our knowledge, true and accurate. However, since the particular uses and the actual conditions of use of our products are beyond our control, establishing satisfactory performance of our products for the intended application is the customer's sole responsibility. All uses of Equistar products and any written or oral information, suggestions or technical advice from Equistar are without warranty, express or implied, and are not an inducement to use any process or product in conflict with any patent.

Equistar materials are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. Equistar makes no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

More detailed safety and disposal information on our products is contained in the Material Safety Data Sheet (MSDS). All users of our products are urged to retain and use the MSDS. A MSDS is automatically distributed upon purchase/order execution. You may request an advance or replacement copy by calling our MSDS Hotline at (800) 700-0946.

®Petrothene is a registered trademark of Equistar Chemicals, LP.

Equistar Chemicals, LP
1221 McKinney, Suite 700
P.O. Box 2583
Houston, Texas 77252-2583
(800) 615-8999
<http://www.equistarchem.com>



EQUISTAR