

LyondellBasell Petrothene® NA870252 Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

ApplicationsPETROTHENE NA 870-252 exhibits an excellent balance of toughness and softness, with excellent dimensional stability. Typical applications include caps and closures, housewares, toys, containers and novelty items. Regulatory StatusNA 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, contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA870252-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D1505
Melt Flow	38 g/10 min	38 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	41	41	ASTM D2280
Tensile Strength at Break	8.96 MPa	1300 psi	Crosshead Speed - 20 in/min; ASTM D638
Tensile Strength, Yield	12.8 MPa	1850 psi	Crosshead Speed - 20 in/min; ASTM D638
Elongation at Yield	13 %	13 %	ASTM D638
1% Secant Modulus	228 MPa	33000 psi	Crosshead Speed - 1/2 in/min; ASTM D790
2% Secant Modulus	0.186 GPa	27.0 ksi	Crosshead Speed - 1/2 in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	86.0 Å°C	187 Å°F	ASTM D1525
Brittleness Temperature	-25.0 Å°C	-13.0 Å°F	F ₅₀ , Test method has been found useful for specification purposes, but does not necessarily indicate the lowest temperature at which the material may be used.; ASTM D746

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