

LyondellBasell Petrothene® NA831000 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA831-000 resin exhibits high stress crack resistance and low temperature brittleness. Typical applications include housewares, containers and industrial parts. **Regulatory Status**NA 831-000 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520C 2.1. This regulation allows the use of this olefin polymer in "articles that contact food except for articles used for packing or holding food during cooking." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. **Processing Techniques**Specific recommendations for processing NA 831-000 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-NA831000-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM D1505
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength, Yield	8.96 MPa	1300 psi	ASTM D638
Elongation at Yield	14 %	14 %	ASTM D638
Flexural Modulus	0.255 GPa	37.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	40.0 Å°C	104 Å°F	ASTM D648
Vicat Softening Point	85.0 Å°C	185 Å°F	ASTM D1525
Brittleness Temperature	-65.0 Å°C	-85.0 Å°F	F ₅₀ ; ASTM D746

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