

LyondellBasell Montell 0300 Polybutene

Category : Polymer , Thermoplastic , Polybutene

Material Notes:

Key Features: highly isotactic, semi-crystalline homopolymer, good creep resistance, good environmental crack resistance, miscible with polypropylenes
Applications: packaging industry, minor additive in polyethylene seal-peel layer
Meets FDA requirements in 21 CFR 177.1570 for direct food contact up to 212°F (100°C).
Description: Polybutene-1 PB 0300 is a highly isotactic, semi-crystalline homopolymer which can be used where creep resistance, environmental stress crack resistance and elevated temperature performance are key requirements. This polymer is miscible with polypropylenes due to its similar molecular structure. In blends with polyethylenes it is immiscible but easily dispersible. This copolymer is used in the packaging industry primarily as a minor additive in a polyethylene seal-peel layer for the production of coextruded flexible film or more rigid sheet. Varying the concentration in the seal-peel layer offers the unique possibility of tailoring the seal strength for controlled easy-opening of peelable seal packaging. This grade is particularly suitable when peelability is required for packages needing a higher heat resistance. A typical blend partner is a high density polyethylene with a melt index range between 2 and 4 dg/min. This copolymer meets FDA requirements for direct food contact under regulation 21 CFR 177.1570. Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Montell-0300-Polybutene.php

Physical Properties	Metric	English	Comments
Density	0.915 g/cc	0.0331 lb/in ³	ASTM D1505
ESCR 10% Igepal [®]	>= 15000 hour @Temperature 50.0 °C	>= 15000 hour @Temperature 122 °F	No Failure after 15,000 hours; Igepal CO630; ASTM D1693
Melt Flow	4.0 g/10 min	4.0 g/10 min	ISO 1133-1981E

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 26.1 MPa	>= 3790 psi	ISO 1184-1983E
Tensile Strength, Yield	13.8 MPa	2000 psi	ISO 1184-1983E
Elongation at Break	>= 300 %	>= 300 %	ISO 1184-1983E
Modulus of Elasticity	0.241 GPa	35.0 ksi	ISO 1184-1983E

Thermal Properties	Metric	English	Comments
Melting Point	126 °C	259 °F	DSC
Vicat Softening Point	113 °C	235 °F	ASTM D1525
Brittleness Temperature	-18.0 °C	-0.400 °F	ASTM D746

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