

LyondellBasell DP 8310M Polybutene

Category : Polymer , Thermoplastic , Polybutene

Material Notes:

Key Features: semi-crystalline high ethylene content random copolymer **Applications:** packaging industry, cast film, FDA acceptable **Meets** FDA requirements in 21 CFR 177.1570 for direct food contact up to 212°F (100°C). **Description:** Polybutene-1 DP 8310 is a semi-crystalline high ethylene content random copolymer which is miscible with polypropylenes due to its similar molecular structure. In blends with polyethylene it is immiscible but easily dispersible. It is used in the packaging industry as a minor additive in a polyethylene peel seal layer for the production of coextruded flexible film or more rigid sheet. Varying the copolymer concentration in the peel seal layer offers the unique possibility of tailoring the seal strength blown or cast film formulations when improved optical properties of the resulting film are required. A typical blend partner is a low density polyethylene with a melt index range between 0.5 and 4 dg/min. All other polyethylene types and copolymers of the same melt index range can be used. It can also be used in blends with polypropylenes to reduce flexural modulus and hardness characteristics very effectively. This resin meets FDA requirements for direct food contact at temperatures up to 100°C under regulation 21 CFR 177.1570. Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

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http://www.lookpolymers.com/polymer_LyondellBasell-DP-8310M-Polybutene.php

Physical Properties	Metric	English	Comments
Density	0.895 g/cc	0.0323 lb/in ³	ASTM D1505
Melt Flow	3.0 g/10 min	3.0 g/10 min	ISO 1133-1981E

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	24.1 MPa	3500 psi	ISO 1184-1983E
Tensile Strength, Yield	3.74 MPa	542 psi	ISO 1184-1983E
Elongation at Break	550 %	550 %	ISO 1184-1983E
Modulus of Elasticity	0.0517 GPa	7.50 ksi	ISO 1184-1983E

Thermal Properties	Metric	English	Comments
Melting Point	116 °C	241 °F	DSC
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525
Brittleness Temperature	-34.0 °C	-29.2 °F	ASTM D746

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