

LyondellBasell DP 8220M Polybutene

Category : Polymer , Thermoplastic , Polybutene

Material Notes:

Key Features: semi-crystalline, medium ethylene content random copolymer, reduces seal initiation temperature, FDA acceptable

Applications: seal-peel layer of BOPP film Meets FDA requirements in 21 CFR 177.1570 for direct food contact up to 212°F (100°C).

Description: Polybutene-1 DP 8220 is a development product. It is a semi-crystalline, medium ethylene content random copolymer which is miscible with polypropylenes due to its similar molecular structure. In blends with polyethylenes it is immiscible but easily dispersible. The main target application for this experimental grade has been designed for use in blends with polypropylene, to reduce the seal initiation temperature. A typical application is the seal-peel layer of BOPP film formulations used for high speed packaging applications. By varying the concentrations of the blend components, seal initiation temperatures down to 75°C can be achieved. This grade can be used in easy-opening applications where the optical properties of the peelable seal are critical. 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-DP-8220M-Polybutene.php

Physical Properties	Metric	English	Comments
Density	0.897 g/cc	0.0324 lb/in ³	ASTM D1505
Melt Flow	2.0 g/10 min	2.0 g/10 min	ISO 1133-1981E

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 26.0 MPa	>= 3770 psi	ISO 1184-1983E
Tensile Strength, Yield	9.00 MPa	1310 psi	ISO 1184-1983E
Elongation at Break	>= 350 %	>= 350 %	ISO 1184-1983E
Modulus of Elasticity	0.115 GPa	16.7 ksi	ISO 1184-1983E

Thermal Properties	Metric	English	Comments
Melting Point	105 °C	221 °F	DSC

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