

## LyondellBasell Montell 1900 UHMW Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

**Key Features:** ultrahigh molecular weight polyethylene resin, excellent abrasion resistance, high impact strength, low coefficient of friction, good chemical resistance, low odor and taste transfer

**Applications:** wear surfaces in pulp and paper process, material handling and packaging equipment, food and beverage processing systems, impact and abrasion resistant parts for mining and solid waste handling, marine fendering, battery separators, FDA acceptable

**Meets FDA requirements in 21 CFR 177.1520 for all food contact, including cooking applications.**

**Description:** 1900 ultrahigh molecular weight polyethylene resin has an average molecular weight range between 4 and 6 million. This polymer is for use in compression molding, solution and ram extrusion processes. It is supplied in a fine powder form. This resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for all food contact, including cooking applications. It has passed USP Class VI testing. This resin has passed the testing for compliance with 3A Sanitary Standards for plastics in contact with dairy products. All ingredients meet the chemical registration requirements of TSCA and DSL.

**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-1900-UHMW-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Montell-1900-UHMW-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.470 - 0.470 g/cc	0.0170 - 0.0170 lb/in <sup>3</sup>	ASTM D792
Viscosity Test	2600 cm <sup>3</sup> /g	2600 cm <sup>3</sup> /g	Intrinsic; ASTM D4020

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D638
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM D638
Elongation at Break	340 %	340 %	ASTM D638
Elongation at Yield	13 %	13 %	ASTM D638
Flexural Modulus	0.750 GPa	109 ksi	1% secant at 0.05 in/min; ASTM D790B
Izod Impact Resistance	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	ASTM D4020-98
Abrasion	7.7	7.7	% Abrasion Index; Montell P116 Test

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