



## DOW™ 20-6064A HEALTH+™

### Ultra-Pure Polyethylene

#### General Information

**Product Description** DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene resin is characterized by low melt index and intermediate crystallinity. A unique polymerization process allows for the production of a very high purity product, vital for pharmaceutical applications. The product is designed to have outstanding flexibility and environmental stress crack resistance. For optimized processability, the Dow™ 20-6064A HEALTH+™ contains a specially-designed release agent compatible with many pharmaceutical formulations.

#### Status

#### Typical Characteristics

**Features** Contains an injection blow molding release agent at a lower level.

**Applications** Injection blow molded bottles, in particular, used in medical and pharmaceutical packaging.

#### Typical Properties

Physical	Nominal Values	Test Method(s)	
*Density ( )	0.92 g/cm <sup>3</sup>	ASTM D792	ISO 1183
*Melt Flow Index ( 190°C/2.16kg )	1.9 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point ( DSC )	109 °C ( 228.2 °F )	ASTM D3418	ISO 3146
Freezing Point ( DSC )	94 °C ( 201.2 °F )	ASTM D3418	ISO 3146
Vicat Softening Point ( )	94 °C ( 201.2 °F )	ASTM D1525	ISO 306

#### Processing Information

\*Maximum Processing Temperature 310 °C ( 590 °F )

**General Processing Information** DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene is normally processed at melt temperatures ranging from 180-235°C (356-455°F). Actual processing temperatures will usually be determined by optimizing product appearance and production rates on individual production lines.

Unusual materials of construction are not required in the processing of this resin due to the non-corrosive nature of DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene. For long equipment life, a wear-resistant extruder barrel is recommended. Nickel or chrome plating of the screw, adapter, and die parts is also recommended.

#### General Processing Recommendations:

Dry blending of DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene with other polyethylene resins additive masterbatches is best done using resins with melt indexes similar to DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene and a screw design that enhances mixing.

No special purging prior to shut down is necessary when processing only DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene resin, but purging with a low melt index LDPE resin is recommended if pigment, additives, or other resins have been added during production runs. Shut down of the melt handling system on DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene resin or some other low melt index LDPE resin.



## FDA Status Information

**DOW™ 20-6064A HEALTH+™ Ultra-Pure Polyethylene Resin complies with Food and Drug Administration Regulation 21 CFR 177.1520(c)2.2 - - Olefin polymers. This Regulation describes polymers that may be used as articles or components of articles in contact with food, including articles used for packing or holding food during cooking, subject to the limitations and requirements therein.**

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