Technical Data Sheet

DOW™ 20-6064B HEALTH+™ Ultra-Pure Polyethylene Resin

Product Description

DOW™ 20-6064B 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™ 20-6064B HEALTH+™ Ultra-Pure Polyethylene Resin contains a specially-designed release agent compatible with many pharmaceutical formulations.

Features

Contains an injection blow molding release agent at a higher level.

Applications

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

Typical Properties

Physical	Nominal Values	Unit	Test Method(s)	
Density	0.92	g/cm^3	ASTM D792	ISO 1183
Melt Flow Index(190°C/2.16 kg)	1.9	g/10 min	ASTM D1238	ISO 1183
Thermal				
Melting Point (DSC)	109 (228.2)	°C (°F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	94 (201.2)	°C (°F)	ASTM D3418	ISO 3146
Vicat Softening Point	94 (201.2)	°C (°F)	ASTM D1525	ISO 306
Maximum Processing Temperature	310 (590)	°C (°F)		

1. ASTM: American Society for Testing and Materials
   ISO: International Standardization Organization

General Processing Information

DOW™ 20-6064B HEALTH+™ Ultra-Pure Polyethylene Resin 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™ 20-6064B HEALTH+™ Ultra-Pure Polyethylene Resin. 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.