

DuPont™ 20 Series DPE-20

DuPont™ 20 Series resins Product Data Sheet

Description	
Product Description	DuPont™ 20 Series DPE-20, specialty low density polyethylene resin is characterized by low melt index and intermediate crystallinity. This product, produced via a unique polymerization process, has outstanding flexibility and environmental stress crack resistance.
Restrictions	
Material Status	Commercial: Active
Typical Characteristics	
Characteristics / Benefits	DPE-20 specialty polyethylene resins conform to the requirements of ASTM D1248-69, Type I, Class A, Category 3
Applications	-- Extrusion Blow-mold / Fill / Seal vials, also known as "BFS vials". -- Injection molded parts, in particular used in medical and pharmaceutical packaging.
Typical Properties	
Physical	Nominal ValuesTest Method(s)
*Density ()	0.92 g/cm³ASTM D792ISO 1183
*Melt Flow Rate (190°C/2.16kg)	1.9 g/10 minASTM D1238ISO 1133
Thermal	Nominal ValuesTest Method(s)
*Melting Point (DSC)	108 °C (226.4 °F)ASTM D3418ISO 3146
Freezing Point (DSC)	92 °C (197.6 °F)ASTM D3418ISO 3146
Vicat Softening Point ()	94 °C (201.2 °F)ASTM D1525ISO 306
Processing Information	
*Maximum Processing Temperature	310 °C (590 °F)
General Processing Information	DPE-20 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 DPE-20. 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 DPE-20 with other polyethylene resins additive masterbatches is best done using resins with melt indexes similar to DPE-20 and a screw design that enhances mixing. No special purging prior to shut down is necessary when processing only DPE-20 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 DPE-20 resin or some other low melt index LDPE resin.

FDA Status Information	<p>DuPont™ DPE 20 Specialty 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.</p> <p>The information and certifications provided herein are based on data we believe to be reliable, to the best of our knowledge. The information and certifications apply only to the specific material designated herein as sold by DuPont and do not apply to use in any process or in combination with any other material. They are provided at the request of and without charge to our customers. Accordingly, DuPont cannot guarantee or warrant such certifications or information and assumes no liability for their use.</p>
Regulatory Information	<p>DPE-20 specialty polyethylene resin is specified in pharmaceutical packaging and is listed in FDA Drug Master File 1528 for packaging materials applications.</p> <p>For information on regulatory compliance outside of the U.S., consult your local DuPont representative.</p>
Safety & Handling	<p>For information on appropriate Handling & Storage of this polymeric resin, please refer to the material Safety Data Sheet..</p> <p>A Product Safety Bulletin, material Safety Data Sheet, and/or more detailed information on extrusion processing and/or compounding of this polymeric resin for specific applications are available from your DuPont Performance Materials representative.</p>

Regional Centres

DuPont operates in more than 70 countries.

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