

DuPont™ 20 Series DPE-20

Low Density Polyethylene

DuPont Packaging & Industrial Polymers

Message:

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.

Characteristics/Benefits: DPE-20 specialty polyethylene resins conform to the requirements of ASTM D1248-69, Type I, Class A, Category 3

Applications: Injection blow molded bottles and tubes, and extruded tubing, in particular used in medical and pharmaceutical packaging.

| General Information | |
|---------------------|----------------------------------|
| Features | Food Contact Acceptable |
| | Good Flexibility |
| | High ESCR (Stress Crack Resist.) |
| | Low Flow |
| Uses | Bottles |
| | Medical Packaging |
| | Pharmaceutical Packaging |
| | Tubing |
| Agency Ratings | ASTM D 1248, I, Class A, Cat. 3 |
| | DMF 1528 |
| | FDA 21 CFR 177.1520(c) 2.2 |
| Forms | Pellets |
| Processing Method | Extrusion |
| | Injection Blow Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|----------------------|
| Specific Gravity | 0.920 | g/cm ³ | ASTM D792, ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.9 | g/10 min | ASTM D1238, ISO 1133 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 94.0 | °C | ASTM D1525, ISO 306 |
| Peak Melting Temperature | 108 | °C | ASTM D3418, ISO 3146 |
| Freezing Point | | | |
| -- | 92 | °C | ISO 3146 |
| -- | 92 | °C | ASTM D3418 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 180 to 235 | °C | |

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