

DuPont 20 Series 2020 Specialty Polyethylene Resin (discontinued **)

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

Material Notes:

DuPont 2020T and 2020 specialty low density polyethylene resins are products characterized by low melt index and intermediate crystallinity. These products, produced via a unique polymerization process, have a well earned reputation for processability and outstanding flexibility and environmental stress crack resistance. DPE 2020T and 2020 are identical products with DPE 2020T passing a "tube defect" specification that is not required for DPE2020. Typical Applications: Extruded squeeze tubes for personal care, cosmetic, and pharmaceutical applications; Tube shoulders providing headers for LDPE, HDPE and coextruded squeeze tubes; Low pressure water and air tubing; Rotational molding fittings; Molding of small bottles, caps, seals, etc. for medical, personal care and other applications. Features & Benefits: Superior resistance to environmental stress cracking; High flexibility; Good heat stability; Excellent color; Odor free; Excellent chemical resistance; Tasteless; Nontoxic. Each lot of DPE 2020T passes an internal tube imperfection specification. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-20-Series-2020-Specialty-Polyethylene-Resin-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Density | 0.920 g/cc | 0.0332 lb/in ³ | ASTM D792 |
| Melt Flow | 1.1 g/10 min @Load 2.16 kg, Temperature 190 °C | 1.1 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------------------|---|------------|
| Hardness, Shore D | 51 | 51 | ASTM D2240 |
| Tensile Strength, Ultimate | 18.6 MPa | 2700 psi | ASTM D638 |
| Tensile Strength, Yield | 9.60 MPa | 1390 psi | ASTM D638 |
| Elongation at Break | 620 % | 620 % | ASTM D638 |
| Modulus of Elasticity | 0.186 GPa | 27.0 ksi | ASTM D638 |
| Flexural Modulus | 0.238 GPa | 34.5 ksi | ASTM D790 |
| Izod Impact, Notched | NB | NB | ASTM D256 |
| | 0.430 J/cm @Temperature -40.0 °C | 0.806 ft-lb/in @Temperature -40.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--------------------|---------|---------|-----------------------------------|
| Melting Point | 93.0 °C | 199 °F | Freezing Point via DSC/ASTM D3418 |

| Thermal Properties | 109 °C Metric | 228 °F English | Upon Melting via DSC/ASTM D3418 Comments |
|--|------------------|-------------------|---|
| Deflection Temperature at 0.46 MPa (66 psi) | 44.0 °C | 111 °F | ASTM D648 |
| Vicat Softening Point | 97.0 °C | 207 °F | ASTM D1525 |
| Brittleness Temperature | <= -76.0 °C | <= -105 °F | ASTM D746 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------|
| Refractive Index | 1.51 | 1.51 | ASTM D542 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|--------------------------------------|
| Nozzle Temperature | 193 °C | 379 °F | Typical die temp for tube extrusion. |
| Melt Temperature | 188 °C | 370 °F | tube extrusion |

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