

DuPont 20 Series 2010 Specialty Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

DuPont 2010 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 and contains a mold release agent. Typical Applications: Injection blow molded closures where close thread tolerances are required; Pharmaceutical and medical bottles and closures; Personal care containers and closures; Low pressure air and water tubing. Features & Benefits: Superior resistance to environmental stress cracking; High flexibility; Good heat stability; Excellent color; Odor free; Excellent chemical resistance; Good mold release performance; Nontoxic. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-20-Series-2010-Specialty-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Melt Flow	1.9 g/10 min @Load 2.16 kg, Temperature 190 °C	1.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength, Ultimate	14.7 MPa	2130 psi	ASTM D638
Tensile Strength, Yield	9.60 MPa	1390 psi	ASTM D638
Elongation at Break	560 %	560 %	ASTM D638
Modulus of Elasticity	0.186 GPa	27.0 ksi	ASTM D638
Flexural Modulus	0.183 GPa	26.5 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	95.0 °C	203 °F	Freezing Point via DSC/ASTM D3418
	109 °C	228 °F	Upon Melting via DSC/ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	44.0 °C	111 °F	ASTM D648

Vicat Softening Point Thermal Properties	95.0 °C Metric	203 °F English	ASTM D1525 Comments
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
Processing Temperature	218 °C	424 °F	Typical Nozzle Ext. and Manifold temp for injection blow molding.
Nozzle Temperature	218 °C	424 °F	Die

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