

Eastman 1810E Polyethylene (discontinued **)

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

Material Notes:

Polyethylene 1810E contains no additives. It is suggested for general purpose extrusion applications requiring good stress crack resistance or electrical properties. It is used in applications such as tubing blow moldin.Polyethylene 1810E meet the requirements of FDA regulation 21 CFR 177.1520 (c) (2.2) and may be used as a component of packages used for holding food during cooking.Information from manufacturer data sheet.Eastman Chemical Company sold its polyethylene business to Westlake Chemical Corporation in Dec. 2006. This grade no longer appears in the Westlake product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-1810E-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D 4883
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	13.7 MPa	1990 psi	500 mm/min (20 in./min.); ASTM D638, Type IV Specimen
Tensile Strength, Yield	10.9 MPa	1580 psi	500 mm/min (20 in./min.); ASTM D638, Type IV Specimen
Elongation at Break	540 %	540 %	500 mm/min (20 in./min.); ASTM D638, Type IV Specimen
Flexural Modulus	0.221 GPa	32.1 ksi	2% Secant, 12.7 mm/min. (0.5 in./min.); ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525
Brittleness Temperature	-73.0 °C	-99.4 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Extrusion	

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