

Eastman 800E Polyethylene (discontinued **)

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

Material Notes:

Polyethylene 800E is used in general-purpose extrusion applications that also require good stress resistance. This formula complies with FDA regulations at 21 CFR177.1520 (c)(2.2) for use in articles for packing and holding food during cooking. Users must make their own determination that their use of this product is safe, legal, and technically suitable for their intended applications. Unless otherwise noted, all tests are run at 23°C and 50% RH. 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-800E-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D4883
Melt Flow	1.7 g/10 min @Load 2.16 kg, Temperature 190 °C	1.7 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	12.0 MPa	1740 psi	500 mm/min (20 in./min.); Type IV Specimen; ASTM D638
Tensile Strength, Yield	10.0 MPa	1450 psi	500 mm/min (20 in./min.); Type IV Specimen; ASTM D638
Elongation at Break	500 %	500 %	500 mm/min (20 in./min.); Type IV Specimen; ASTM D638
Flexural Modulus	0.200 GPa	29.0 ksi	2% Secant, 12.7 mm/min. (0.5 in./min.); ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525
Brittleness Temperature	<= -73.0 °C	<= -99.4 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Extrusion	

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