

Eastman 1390P Polyethylene (discontinued **)

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

Material Notes:

Low-density polyethylene 1390P is used primarily in extrusion-coating applications that require fast line speeds and relatively low coating weights. When compared with other low-density polyethylene coating materials that have considerably lower melt indexes, 1390P has slightly better adhesion to paper substrates and can be heat-sealed at a slightly lower temperature. However, high melt index coating materials produce slightly more neck-in and a narrower heat-sealing temperature range. Designed for applications such as sugar pouches and freezer wrap, where high coating speeds and good drawdown are required. The combination of high melt index and low density also provides good heat seals at high packaging or sealing rates. List of Applications: Coatings for paper/paperboard Information supplied by the manufacturer. 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-1390P-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.915 g/cc	0.0331 lb/in ³	ASTM D4883
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 190 °C	15 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	9.00 MPa	1310 psi	500 mm/min (20 in./min.); ASTM D638, Type IV Specimen
Tensile Strength, Yield	10.0 MPa	1450 psi	500 mm/min (20 in./min.); ASTM D638, Type IV Specimen
Elongation at Break	300 %	300 %	500 mm/min (20 in./min.); ASTM D638, Type IV Specimen
Flexural Modulus	0.193 GPa	28.0 ksi	2% Secant, 12.7 mm/min. (0.5 in./min.); ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	86.0 °C	187 °F	ASTM D1525
Brittleness Temperature	-52.0 °C	-61.6 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Coating	

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