

Eastman 18DOA Polyethylene (discontinued **)

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

Material Notes:

Polyethylene 18DOA is a low density formulation suggested for the production of closures where a high melt index material is needed to meet shrinkage requirements and fast molding cycles. It molds with unusual ease and is suggested for large, thin-walled items where stress-crack resistance is not a primary requirement. Polyethylene 18DOA can be used as a base for color concentrates. 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-18DOA-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D4883
Melt Flow	40 g/10 min @Load 2.16 kg, Temperature 190 °C	40 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.00 MPa	1160 psi	500 mm/min (20 in./min.); Type IV Specimen; ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	500 mm/min (20 in./min.); Type IV Specimen; ASTM D638
Elongation at Break	70 %	70 %	500 mm/min (20 in./min.); Type IV Specimen; ASTM D638
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	88.0 °C	190 °F	ASTM D1525
Brittleness Temperature	<= -36.0 °C	<= -32.8 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Injection Molding	

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