

Dow ATTANE™ 4404G, 2mil Ultra Low Density Ethylene/Octene Copolymer

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

Material Notes:

ATTANE™ 4201G provides improved cling in one-sided cling applications, and has improved toughness and optical properties. It complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-ATTANE-4404G-2mil-Ultra-Low-Density-EthyleneOctene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.904 g/cc	0.0327 lb/in ³	ASTM D792
Water Vapor Transmission	16.7 g/m ² /day	1.08 g/100 in ² /day	1 atm, 38°C, 100% RH; ASTM D1249
Oxygen Transmission	445.7 cc-mm/m ² -24hr-atm	1132 cc-mil/100 in ² -24hr-atm	ASTM D3985
Carbon Dioxide Transmission	2022 cc-mm/m ² -24hr-atm	5136 cc-mil/100 in ² -24hr-atm	Dow Method
Thickness	50.8 microns	2.00 mil	
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.76 MPa	980 psi	ASTM D882
Film Tensile Strength at Yield, TD	6.34 MPa	919 psi	ASTM D882
Film Elongation at Break, MD	664 %	664 %	ASTM D882
Film Elongation at Break, TD	714 %	714 %	ASTM D882
Secant Modulus, MD	0.062563 GPa	9.0741 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.06298 GPa	9.135 ksi	2% Secant; ASTM D882
Impact	211	211	[ft-lbf/in³]; Puncture Resistance; Dow Method
Elmendorf Tear Strength MD	955 g	955 g	ASTM D1922
Elmendorf Tear Strength TD	1100 g	1100 g	ASTM D1922
Elmendorf Tear Strength, MD	18.80 g/micron	477.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	21.7 g/micron	550 g/mil	ASTM D1922
Dart Drop Test	>= 850 g	>= 1.87 lb	Method B; ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	32.60 MPa Metric	4728 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	32.43 MPa	4703 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	Dow Method (DSC)
Vicat Softening Point	71.0 °C	160 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	1.8 %	1.8 %	ASTM D1003
Gloss	90 %	90 %	45°; ASTM D2457
Transmission, Visible	99 %	99 %	Clarity; ASTM D1746

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