

Dow ATTANE™ 4404G, 0.8mil 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-08mil-Ultra-Low-Density-EthyleneOctene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.904 g/cc	0.0327 lb/in ³	ASTM D792
Thickness	20.3 microns	0.800 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	6.998 MPa	1015 psi	ASTM D882
Film Tensile Strength at Yield, TD	4.92 MPa	713 psi	ASTM D882
Film Elongation at Break, MD	499 %	499 %	ASTM D882
Film Elongation at Break, TD	713 %	713 %	ASTM D882
Secant Modulus, MD	0.05878 GPa	8.526 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.06469 GPa	9.383 ksi	2% Secant; ASTM D882
Impact	228	228	[ft-lbf/in ³]; Puncture Resistance; Dow Method
Elmendorf Tear Strength MD	333 g	333 g	ASTM D1922
Elmendorf Tear Strength TD	497 g	497 g	ASTM D1922
Elmendorf Tear Strength, MD	16.388 g/micron	416.25 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	24.459 g/micron	621.25 g/mil	ASTM D1922
Dart Drop Test	>= 850 g	>= 1.87 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	36.87 MPa	5347 psi	ASTM D882
Film Tensile Strength at Break, TD	29.1 MPa	4220 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	0.60 %	0.60 %	ASTM D1003
Gloss	92 %	92 %	45°; ASTM D2457
Transmission, Visible	99 %	99 %	Clarity; ASTM D1746

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