

## Dow ATTANE™ 4201G, 0.8mil Ultra Low Density Ethylene/Octene Copolymer

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

### Material Notes:

ATTANE™ 4201G is used for packaging applications. It offers toughness, seal properties, optical properties and processability. 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-4201G-08mil-Ultra-Low-Density-EthyleneOctene-Copolymer.php](http://www.lookpolymers.com/polymer_Dow-ATTANE-4201G-08mil-Ultra-Low-Density-EthyleneOctene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.912 g/cc	0.0329 lb/in <sup>3</sup>	ASTM D792
Oxygen Transmission	282 cc-mm/m <sup>2</sup> -24hr-atm	716 cc-mil/100 in <sup>2</sup> -24hr-atm	ASTM D3985
Thickness	20.3 microns	0.800 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.832 MPa	1426 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.956 MPa	1299 psi	ASTM D882
Film Elongation at Break, MD	464 %	464 %	ASTM D882
Film Elongation at Break, TD	691 %	691 %	ASTM D882
Secant Modulus, MD	0.128 GPa	18.6 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.144 GPa	20.9 ksi	2% Secant; ASTM D882
Impact	295	295	[ft-lbf/in<sup>3</sup>]; Puncture Resistance; Dow Method
Elmendorf Tear Strength MD	326 g	326 g	ASTM D1922
Elmendorf Tear Strength TD	533 g	533 g	ASTM D1922
Elmendorf Tear Strength, MD	16.04 g/micron	407.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	26.230 g/micron	666.25 g/mil	ASTM D1922
Dart Drop Test	449 g	0.990 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	49.01 MPa	7108 psi	ASTM D882
Film Tensile Strength at Break, TD	45.26 MPa	6565 psi	ASTM D882
Heat Seal Strength Initiation			1 lb/in heat seal strength; 0.5 sec

Temperature Mechanical Properties	95.0 °C Metric	203 °F English	dwel. 40 psi bar pressure, pull speed 10 (in./min.); Dow Method
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Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	93.0 °C	199 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	67 %	67 %	45°; ASTM D2457
Transmission, Visible	97 %	97 %	Clarity; ASTM D1746

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