Dow ATTANE™ 4201G, 2mil 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-2mil-Ultra-Low-Density-EthyleneOctene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.912 g/cc	0.0329 lb/in³	ASTM D792
Water Vapor Transmission	10.5 g/m²/day	0.676 g/100 in²/day	1 atm, 38°C, 100% RH; ASTM D1249
Oxygen Transmission	280 cc-mm/m²-24hr-atm	711 cc-mil/100 in²-24hr-atm	ASTM D3985
Carbon Dioxide Transmission	1235 cc-mm/m²-24hr-atm	3138 cc-mil/100 in²-24hr-atm	Dow Method
Thickness	50.8 microns	2.00 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	9.136 MPa	1325 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.080 MPa	1317 psi	ASTM D882
Film Elongation at Break, MD	658 %	658 %	ASTM D882
Film Elongation at Break, TD	758 %	758 %	ASTM D882
Secant Modulus, MD	0.130 GPa	18.9 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.154 GPa	22.3 ksi	2% Secant; ASTM D882
Impact	260	260	[ft-lbf/in³]; Puncture Resistance; Dow Method
Elmendorf Tear Strength MD	1039 g	1039 g	ASTM D1922
Elmendorf Tear Strength TD	1232 g	1232 g	ASTM D1922
Elmendorf Tear Strength, MD	20.45 g/micron	519.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	24.3 g/micron	616 g/mil	ASTM D1922
Dart Drop Test	607 g	1.34 lb	Method B; ASTM D1709

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	49.82 MPa	7226 psi	ASTM D882
Film Tensile Strength at Break, TD	45.84 MPa	6649 psi	ASTM D882
Heat Seal Strength Initiation Temperature	97.0 °C	207 °F	2 lb/in heat seal strength; 0.5 sec dwell, 40 psi bar pressure, pull speed 10 (in./min.); Dow Method

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	71 %	71 %	45°; ASTM D2457
Transmission, Visible	98 %	98 %	Clarity; ASTM D1746

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China