

Dow ATTANE™ 4301 Ultra Low Density Polyethylene, Blown Film Grade

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Very Low Density Polyethylene (VLDPE)

Material Notes:

ATTANE® 4301 copolymer is an ultra low density polyethylene having high impact resistance and tear strength in blown films, designed for use in food packaging applications. It has low levels of slip and antiblock additives. It complies with FDA regulation 21 CFR 177.1520 (c) 3.2a, allowing for use in packing or holding food during cooking when used unmodified and according to good manufacturing practices for food contact application. Film properties below based on a film thickness of 25 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-ATTANE-4301-Ultra-Low-Density-Polyethylene-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.913 g/cc	0.0330 lb/in ³	
Moisture Vapor Transmission	0.0300 cc-mm/m ² -24hr-atm	0.0762 cc-mil/100 in ² -24hr-atm	or 1.2 g/m ² /atm/24 hr
Thickness	25.0 microns	0.984 mil	
Melt Flow	1.0 g/10 min @Load 2.16 kg	1.0 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 8.2.

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.14	0.14	
Elmendorf Tear Strength MD	363 g	363 g	
Elmendorf Tear Strength TD	544 g	544 g	
Elmendorf Tear Strength, MD	14.5 g/micron	368 g/mil	
Elmendorf Tear Strength, TD	21.8 g/micron	554 g/mil	
Dart Drop	>= 33.2 g/micron	>= 843 g/mil	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	

Optical Properties	Metric	English	Comments
Haze	7.3 %	7.3 %	

Processing Properties	Metric	English	Comments
Processing Temperature	225 °C	437 °F	Film extrusion temperature

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