

Dow ATTANE™ 4501 Ultra Low Density Polyethylene, Blown Film Grade

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

Material Notes:

ATTANE® 4501 copolymer is an ultra low density polyethylene having high tear strength and impact resistance, designed for use in industrial/ consumer film applications, either as a high performance monolayer blown film or as part of a multilayer film. It has low levels of slip and antiblock additives. It complies with FDA regulation 21 CFR 177.1520 (c) 3.2a for food contact. Film properties below based on a film thickness of 38 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-ATTANE-4501-Ultra-Low-Density-Polyethylene-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.913 g/cc	0.0330 lb/in³	
Thickness	38.0 microns	1.50 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	0.17	0.17	
Elmendorf Tear Strength MD	673 g	673 g	
Elmendorf Tear Strength TD	883 g	883 g	
Elmendorf Tear Strength, MD	17.7 g/micron	450 g/mil	
Elmendorf Tear Strength, TD	23.2 g/micron	589 g/mil	
Dart Drop	>= 21.8 g/micron	>= 554 g/mil	

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

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

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