

## Dow ATTANE™ 4202 Ultra Low Density Polyethylene, Cast Film Grade

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

### Material Notes:

ATTANE® 4202 copolymer is an ultra low density polyethylene having excellent tear and puncture resistance with good optics. It is designed for cast films used in food packaging applications. It complies with FDA regulation 21 CFR 177.1520 (c) 3.1b. It is not to be used in packing or holding food during cooking. 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-4202-Ultra-Low-Density-Polyethylene-Cast-Film-Grade.php](http://www.lookpolymers.com/polymer_Dow-ATTANE-4202-Ultra-Low-Density-Polyethylene-Cast-Film-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.912 g/cc	0.0329 lb/in <sup>3</sup>	
Thickness	25.0 microns	0.984 mil	
Melt Flow	3.3 g/10 min @Load 2.16 kg	3.3 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 7.7.

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.90 MPa	1000 psi	
Film Tensile Strength at Yield, TD	6.20 MPa	899 psi	
Film Elongation at Break, MD	580 %	580 %	
Film Elongation at Break, TD	780 %	780 %	
Elmendorf Tear Strength MD	400 g	400 g	
Elmendorf Tear Strength TD	590 g	590 g	
Elmendorf Tear Strength, MD	16.0 g/micron	406 g/mil	
Elmendorf Tear Strength, TD	23.6 g/micron	599 g/mil	
Dart Drop	18.4 g/micron	467 g/mil	
Film Tensile Strength at Break, MD	56.5 MPa	8190 psi	
Film Tensile Strength at Break, TD	36.5 MPa	5290 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 °C	194 °F	

Optical Properties	Metric	English	Comments
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Haze Optical Properties	0.80 % Metric	0.80 % English	Comments
Gloss	95 %	95 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	274 °C	525 °F	Film extrusion temperature

## Contact Songhan Plastic Technology Co.,Ltd.

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