

## Dow ATTANE™ 4402 Ultra Low Density Polyethylene, Cast Film Grade

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

### Material Notes:

ATTANE® 4402 copolymer is an ultra low density polyethylene having excellent tear and puncture resistance, and outstanding stretchability. It is designed for industrial/consumer cast film applications. It complies with FDA regulation 21 CFR 177.1520 (c) 3.1 for food contact. 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-4402-Ultra-Low-Density-Polyethylene-Cast-Film-Grade.php](http://www.lookpolymers.com/polymer_Dow-ATTANE-4402-Ultra-Low-Density-Polyethylene-Cast-Film-Grade.php)

| Physical Properties | Metric                        | English                       | Comments                       |
|---------------------|-------------------------------|-------------------------------|--------------------------------|
| Density             | 0.912 g/cc                    | 0.0329 lb/in³                 |                                |
| Thickness           | 25.0 microns                  | 0.984 mil                     |                                |
| Melt Flow           | 3.3 g/10 min<br>@Load 2.16 kg | 3.3 g/10 min<br>@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 |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| <small>Haze</small><br>Optical Properties | <small>0.80 %</small><br>Metric | <small>0.80 %</small><br>English | Comments |
|-------------------------------------------|---------------------------------|----------------------------------|----------|
| Gloss                                     | 95 %                            | 95 %                             | 45°      |

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

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