



# MXSTEN® CV77516

LLDPE Plastomer

## Technical Data Sheet

### Applications

- Blown films
- Core layer in multilayer films

### Product Description

MXSTEN® CV77516 is a linear low density polyethylene plastomer designed for blown film applications. It does not contain any slip or antiblock additives. It is recommended for multilayer films as a core layer to increase the dart impact, puncture resistance, and tear properties of the overall film structure.

### Typical Physical Properties

| Property <sup>a</sup>                |      | Test Method <sup>b</sup> | Typical Value, Units <sup>c</sup> |
|--------------------------------------|------|--------------------------|-----------------------------------|
| Melt Index (Condition 190°C/2.16 kg) |      | D 1238                   | 1.0 g/10 min                      |
| Density                              |      | D 4883                   | 910 kg/m³ (0.910 g/cm³)           |
| Haze                                 |      | D 1003                   | 7 %                               |
| Gloss @ 45°                          |      | D 2457                   | 73                                |
| Dart Impact                          |      | D 1709                   | 890 g                             |
| Elmendorf Tear                       | M.D. | D 1922                   | 370 gf                            |
|                                      | T.D. | D 1922                   | 580 gf                            |
| Tensile Strength @ Break             | M.D. | D 882                    | 53.1 MPa (7,700 psi)              |
|                                      | T.D. | D 882                    | 44.8 MPa (6,500 psi)              |
| Tensile Elongation @ Break           | M.D. | D 882                    | 830 %                             |
|                                      | T.D. | D 882                    | 1,050 %                           |
| Tensile Modulus, 1% Secant           | M.D. | D 882                    | 146.2 MPa (21,200 psi)            |
|                                      | T.D. | D 882                    | 120.7 MPa (17,500 psi)            |

<sup>a</sup> Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

<sup>b</sup> Unless noted otherwise, the test method is ASTM.

<sup>c</sup> Units are in SI or US customary units.

### Notes

Test specimens for blown film: nominal thickness 1.0 mils; blow up ratio 2.5:1, die gap 100 mils.

### Processing

Melt temperatures of 400°F – 430°F are recommended for MXSTEN® CV77516 with blow-up ratios of 1.5:1 or higher.

### Regulatory Compliance

This product has some 21 CFR clearances. Please contact your Westlake Sales Representative for food contact statements.

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