

Applications

- Blown or cast films
- Core layer in multilayer films

Product Description

MXSTEN® CV77516 resin is a linear low density polyethylene plastomer designed for blown and cast 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 ^a | | Test Method ^b | Typical Value, Units ^c |
|--------------------------------------|------|--------------------------|--|
| Melt Index (Condition 190°C/2.16 kg) | | D 1238 | 1.0 g/10 min |
| Density | | D 4883 | 910 kg/m ³ (0.910 g/cm ³) |
| Haze | | D1003 | 8.0% |
| Gloss @ 45° | | D2457 | 65 |
| Dart Impact | | D 1709A | 1,300 g |
| Elmendorf Tear Resistance | M.D. | D 1992 | 450 psi |
| | T.D. | D 1992 | 550 psi |
| Tensile Strength @ Break | M.D. | D 882 | 51.7 MPa (7,500 psi) |
| | T.D. | D 882 | 44.8 MPa (6,500 psi) |
| Elongation @ Break | M.D. | D 882 | 750% |
| | T.D. | D 882 | 1,000% |
| Tensile Modulus, 1% Secant | M.D. | D 882 | 124.1 MPa (18,000 psi) |
| | T.D. | D 882 | 137.9 MPa (20,000 psi) |

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

^b Unless noted otherwise, the test method is ASTM.

^c 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 390°F – 420°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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