

Optema™ TC 110 Blown

Ethylene Methyl Acrylate Copolymer Resin

Product Description

OPTEMA TC 110 is an ethylene methyl acrylate copolymer specifically formulated to offer extrusion and property performance for blown film applications. It produces a soft, elastic film with good handling characteristics without additional additives. It can produce film under 1.0 mil thickness.

General

| | | | |
|---------------------------|---------------------|-------------------|---------------------------|
| Availability ¹ | ▪ Latin America | ▪ North America | |
| Additive | ▪ Antiblock: No | ▪ Slip: No | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Disposable Gloves | ▪ Hospital Drapes | ▪ Upholstery Film |
| Revision Date | ▪ 03/01/2010 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.942 g/cm ³ | 0.942 g/cm ³ | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| Methyl Acrylate Content | 21.5 wt% | 21.5 wt% | ExxonMobil Method |
| Peak Melting Temperature | 176 °F | 80 °C | ExxonMobil Method |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 127 °F | 53 °C | ASTM D1525 |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Break MD | 2900 psi | 20 MPa | ASTM D882 |
| Tensile Strength at Break TD | 3000 psi | 21 MPa | ASTM D882 |
| Elongation at Break MD | 370 % | 370 % | ASTM D882 |
| Elongation at Break TD | 650 % | 650 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 6200 psi | 43 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 5800 psi | 40 MPa | ASTM D882 |
| Dart Drop Impact | 430 g | 430 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 30 g | 30 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 320 g | 320 g | ASTM D1922 |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 34 | 34 | ASTM D2457 |
| Haze | 16 % | 16 % | ASTM D1003 |

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

Film (2 mil / 50.8 micron) made from TC 110 on a 2.5 inch blown film line having a 6 inch die with a 30 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 310-311°F (154-155°C).

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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