

UmaPET AOCM

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET AOCM is medium barrier metallized film, metallized on corona surface other side acrylic coated. It exhibits good barrier properties along with good metal to film bond strength/adhesion.

It has excellent mechanical properties, flex crack resistance and excellent gloss.

APPLICATIONS

UmaPET AOCM is used as barrier layer in flexible packaging applications which require good barrier and bond strength in laminates.

Typical usage as barrier film in laminates for confectionary, snacks, instant drink powder, milk powder, tea, coffee etc.

| General Information | | | |
|--|-----------------------|--------------------|-----------------|
| Features | Barrier Resin | | |
| | Bondability | | |
| | Good Adhesion | | |
| | Good Crack Resistance | | |
| | High Gloss | | |
| | Metallizable | | |
| Uses | Film | | |
| | Laminates | | |
| | Packaging | | |
| Forms | Film | | |
| Physical | Nominal Value | Unit | Test Method |
| Molding Shrinkage | | | ASTM D1204 |
| Flow : 150°C, 30 min, 0.0120 mm | 2.5 | % | |
| Across Flow : 150°C, 30 min, 0.0120 mm | 0.40 | % | |
| Surface Tension | | | ASTM D2578 |
| Acrylic Side : 12.0 µm | 44 | mN/m | |
| Metallized side : 12.0 µm | 56 | mN/m | |
| Yield (12.0 µm) | 59.5 | m ² /kg | Internal Method |
| Optical Density (12.0 µm) | -2.8 to 7.2 | % | Internal Method |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 12 | µm | |
| Film Thickness - Recommended / Available | 12 µm | | |
| Tensile Strength | | | ASTM D882 |
| MD : Break, 12 µm | 206 | MPa | |
| TD : Break, 12 µm | 216 | MPa | |
| Tensile Elongation | | | ASTM D882 |
| MD : Break, 12 µm | 100 | % | |

| | | | |
|--|----------------------|--|------------|
| TD : Break, 12 μm | 90 | % | |
| Oxygen Permeability ¹ (23°C, 12 μm) | < 0.800 | cm ³ /m ² /24 hr | ASTM D3985 |
| Water Vapor Transmission ² | < 0.70 | g/m ² /24 hr | ASTM F1249 |
| NOTE | | | |
| 1. | 0%RH | | |
| 2. | 37.8°C, 90%RH, 12 μm | | |

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