

Propafilm™ MVU60

Polypropylene Alloy

Innovia Films Ltd.

Message:

Enhanced Surface Metallizable Film

Biaxially oriented polypropylene (BOPP) film co-extruded on both sides with heat sealable polyolefinic polymers.

MVU60 is suitable for vacuum metallizing with aluminium and other substances. The metallized surface may be over-printed or lacquered. MVU is normally metallized for use in laminates with other substrates, particularly Propafilm RGP.

| General Information | | | |
|---------------------------------------|----------------------------------|------|-----------------|
| Features | Barrier Resin | | |
| | Excellent Printability | | |
| | Food Contact Acceptable | | |
| | Gas Barrier | | |
| | Good Adhesion | | |
| | Heat Sealable | | |
| | Low Temperature Heat Sealability | | |
| | Moisture Barrier | | |
| | Moisture Resistant | | |
| Uses | Bi-axially Oriented Film | | |
| | Laminates | | |
| | Packaging | | |
| Appearance | Metallized - Clear | | |
| Forms | Film | | |
| Processing Method | Coextrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Molding Shrinkage | | | Internal Method |
| Flow : 129°C, 1 min | 6.0 | % | |
| Across Flow : 129°C, 1 min | -1.0 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction | | | ASTM D1894 |
| vs. Itself - Dynamic, Outside/Outside | 0.50 | | |
| vs. Itself - Static, Outside/Outside | 0.50 | | |
| Films | Nominal Value | Unit | Test Method |
| Secant Modulus ¹ | | | ASTM D882 |
| 1% Secant, MD | 2690 | MPa | |
| 1% Secant, TD | 2290 | MPa | |
| Tensile Strength ² | | | ASTM D882 |
| MD : Yield | 239 | MPa | |

| TD : Yield | 190 | MPa | |
|--|---------------|---|-----------------|
| Tensile Elongation ³ | | | ASTM D882 |
| MD : Break | 90 | % | |
| TD : Break | 130 | % | |
| Seal Strength ⁴ | 0.14 | N/mm | Internal Method |
| Seal Initiation Temperature ⁵ | 116 to 146 | °C | Internal Method |
| Oxygen Permeability (23°C, 0% RH) | 81 | cm ³ ·mm/m ² /atm/24 hr | ASTM F1927 |
| Water Vapor Transmission Rate (38°C, 90% RH) | 10 | g/m ² /24 hr | ASTM F1770 |
| Corona Treatment | 38 | dyne/cm | Internal Method |
| Film Gauge | 60.0 | | Internal Method |
| Yield | 73.5 | m ² /kg | Internal Method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (20°) | 105 | | ASTM D2457 |
| Haze ⁶ | 2.0 | % | ASTM D1003 |

NOTE

- | | |
|----|---|
| 1. | 10%/min |
| 2. | 50%/min |
| 3. | 50%/min |
| 4. | 265°F; 2secs; 15lb/in ² ; untreated to untreated |
| 5. | 2secs; 15lb/in ² ; untreated to untreated |
| 6. | Wide angle, 2.5° |

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