

DURAMET® PLA

HIGH BARRIER METALLIZED POLYLACTIC ACID FILM

Developmental Data Sheet (Imperial)

Metal and Top-Coat One Side, Plain the Other Side

A high barrier metallized with protective top-coat, bi-axially oriented PLA film, made from renewable resources. Good handling and barrier properties for use in many packaging applications. This film exhibits excellent surface brightness. The material is BPI certified.

| Properties | | Typical Value | Units | Test Method |
|-----------------------------|----|---------------|-------------------------------|----------------------------------|
| Thickness | | 1.0 | mil | |
| Yield | | 22,700 | in ² /lb | |
| Tensile Strength (Break) | MD | 9,000 | psi | ASTM D882 |
| | TD | 15,000 | | |
| Optical Density | | 2.0 | | CMP OD-1 |
| Light Transmission | | <1.0 | % | |
| WVTR | | 0.06 | g/100in ² /24 hr. | ASTM F-1249 (100° F, 90% RH) |
| OTR | | 0.09 | cc/100in ² /24 hr. | ASTM D-3985 (73.4° F, 50% RH) |
| Metal Adhesion | | 50 | g/in | CMP MA-1 |
| Base Film Compostability | | Passed | | ASTM D-6400 |

This product may be safely used as components of articles that directly contact food, in strictest accordance and subject to the limitations as set forth under conditions of use B through G, as described in Table 2 of 21 CFR 176.170 (c). However, due to the relatively low softening point we recommend the use of DURAMET® PLA only under conditions of E through G. These applications are without limitation to those described in Table 1 of 21 CFR 176.170 (c).

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