

Capran Medallion® 2500 film

Polyamide 6

Honeywell

Message:

CAPRAN MEDALLION® films from Honeywell are biaxially oriented nylon 6 films with excellent strength and barrier properties. They are well suited for a variety of packaging applications.

| General Information | | | |
|-----------------------------------|--------------------------|--|-------------|
| Features | High strength | | |
| | Perforation resistance | | |
| | Good cracking resistance | | |
| | Definition, high | | |
| | Good toughness | | |
| | Barrier resin | | |
| Uses | Bi-axially Oriented Film | | |
| | Laminate | | |
| | Food packaging | | |
| Forms | Films | | |
| Physical | Nominal Value | Unit | Test Method |
| Molding Shrinkage | | | ASTM D955 |
| Flow: 0.0254mm | 1.5 - 2.5 | % | ASTM D955 |
| Transverse flow: 0.0254mm | 1.0 - 2.0 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction | | | ASTM D1894 |
| With Metal-Dynamic | 0.19 | | ASTM D1894 |
| With self-dynamics | 0.50 | | ASTM D1894 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 25 | µm | |
| secant modulus | | | ASTM D882 |
| MD : 25 µm | 3100 | MPa | ASTM D882 |
| TD : 25 µm | 2550 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Break, 25 µm | 27.6 | MPa | ASTM D882 |
| TD: Break, 25 µm | 34.5 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Break, 25 µm | 1000 | % | ASTM D882 |
| TD: Break, 25 µm | 80 | % | ASTM D882 |
| Oxygen Permeability (25°C, 25 µm) | 0.71 | cm ³ · mm/m ² /atm/24 hr | ASTM D3985 |

| Water Vapor Transmission Rate (25 μ m, 38°C, 100% RH) | 190 | $\text{g} \cdot \text{mm}/\text{m}^2/\text{atm}/24 \text{ hr}$ | ASTM F1249 |
|--|---------------|--|-------------|
| Optical | Nominal Value | Unit | Test Method |
| Gloss (20°, 25.4 μ m) | 130 - 150 | | ASTM D2457 |
| Haze (25.4 μ m) | 2.5 - 3.5 | % | ASTM D1003 |
| Additional Information | | | |

Yield: 23964 in²/lbTensile Strength @ Break, ASTM D 882, MD: 35000 to 45000 psiTensile Strength @ Break, ASTM D 882, TD: 45000 to 55000 psiElongation @ Break, ASTM 882, MD: 90 to 110%Elongation @ Break, ASTM 882, TD: 70 to 90%Secant Modulus, ASTM D 882, MD: 400000 to 500000 psiSecant Modulus, ASTM D 882, TD: 320000 to 420000 psiGraves Tear (initial), ASTM D 1004, MD: 1000 to1400 g/milGraves Tear (initial), ASTM D 1004, TD: 1100 to1500 g/milCoefficient of Friction, ASTM D 1894: 0.40 to 0.60 vs Itself-DynamicCoefficient of Friction, ASTM D 1894: 0.13 to 0.24 vs Metal-DynamicSurface Tension, ASTM D5946, treated side: ≥ 56 dynes/cmSurface Tension, ASTM D5946, untreated side: >50 dynes/cmWater Vapor Transmission ASTM F 1249, 100°F, 100%RH: 11 to 13 g/100 in²/dayOxygen Transmission Rate, ASTM D3985, 77°F, 0%RH: 1.3 to 2.3 cc/100in²/day

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