

YUCLAIR® FT810

Linear Low Density Polyethylene

SK Global Chemical

Message:

YUCLAIR FT810 is octene-1 copolymer designed for use in stretch wrap and casting type packaging film application. YUCLAIR FT810 provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FT810 shows superior tensile strength, tear strength, impact strength, gel-free, cling property. YUCLAIR FT810 can be processed readily into casting film using standard extrusion techniques. YUCLAIR FT810 complies with FDA regulations in 21 CFR177.1520 for all food contact.

| General Information | |
|---------------------|-----------------------------|
| Features | High tensile strength |
| | High adhesion |
| | Copolymer |
| | Impact resistance, high |
| | Good tear strength |
| | Compliance of Food Exposure |
| | Octene comonomer |
| Uses | Packaging |
| | Films |
| | Stretch winding |
| | cast film |
| Agency Ratings | FDA 21 CFR 177.1520 |
| Processing Method | Extrusion |
| | cast film |

| Physical | Nominal Value | Unit | Test Method |
|-------------------------------------------|---------------|-------------------|-------------|
| Density | 0.918 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 30 | µm | ASTM D746 |
| Tensile Strength | | | ASTM D882 |
| MD: Yield, 30 µm | 9.81 | MPa | ASTM D882 |
| TD: Yield, 30 µm | 9.81 | MPa | ASTM D882 |
| MD: Break, 30 µm | 46.1 | MPa | ASTM D882 |
| TD: Break, 30 µm | 42.2 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Break, 30 µm | 700 | % | ASTM D882 |
| TD: Break, 30 µm | 750 | % | ASTM D882 |

| Spencer Impact (30.0 μm) | 0.785 | J | ASTM D3420 |
|-----------------------------|---------------|------|-------------|
| Tear Strength | | | ASTM D1922 |
| MD : 30.0 μm | 186.3 | kN/m | ASTM D1922 |
| TD : 30.0 μm | 196.1 | kN/m | ASTM D1922 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -80.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 100 | °C | ASTM D1525 |
| Optical | Nominal Value | Unit | Test Method |
| Haze (30.0 μm) | 2.0 | % | ASTM D1003 |
| Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp. | 190 | °C | |
| Cylinder Zone 3 Temp. | 230 | °C | |
| Cylinder Zone 5 Temp. | 230 | °C | |
| Die Temperature | 230 | °C | |
| Extrusion instructions | | | |

Film Extrusion Condition: Screw dia 50, Die width 450Die gap 0.8, Screw RPM 31

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