

Formolene® HF4204

High Density Polyethylene (HDPE) Resin for Film Extrusion Applications

Formolene® HF4204 is a hexene based high density film grade designed for cast film extrusion applications requiring good strength and stiffness. Films exhibit good tensile and puncture resistance properties.

Suggested Applications:

Agricultural film Diaper Backsheet Overwrap films

Additives:

Antiblock - No Slip - No Processing Aid - No

Nominal Values

| 1 tollillar values | | _ | | | |
|--|--------|-----------|-------|-----------|-------|
| | ASTM | | | | |
| | TEST | ENGLISH | | SI | |
| PROPERTY* | METHOD | Unit | Value | Unit | Value |
| Density | D1505 | g/cc | 0.942 | g/cc | 0.942 |
| Base Resin Density (without additives) | D1505 | g/cc | 0.942 | g/cc | 0.942 |
| Melt Index, (190°C/2.16) | D1238 | g/10 min. | 4.3 | g/10 min. | 4.3 |
| Film Properties | | | | | |
| Tested Film Thickness | | mil | 0.80 | μm | 20 |
| Tensile Strength | | | | | |
| Yield, MD | D882 | psi. | 2400 | MPa | 16 |
| Yield, TD | | psi. | 2500 | MPa | 17 |
| Break, MD | | psi. | 7300 | MPa | 50 |
| Break, TD | | psi. | 5000 | MPa | 34 |
| Tensile Elongation | | | | | |
| Break, MD | D638 | % | 590 | % | 590 |
| Break, TD | | % | 830 | % | 830 |
| Dart Drop Impact | D1709A | g | < 50 | g | < 50 |
| Elmendorf Tear Strength | | | | | |
| MD | D1922 | g | 20 | g | 20 |
| TD | | g | 170 | g | 170 |
| Optical Properties | | | | | |
| Gloss (45°) | D2457 | | 82 | | 82 |
| Haze | D1003 | % | 3.4 | % | 3.4 |

Note: Film Properties based on cast film line. Actual film properties may vary depending on operating conditions and additive packages. Film properties are not intended to be used as specifications.

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