

CERTENE™ LLMF-118D

Metallocene Linear Low Density Polyethylene
Muehlstein

Message:

LLMF-118D is a certified prime resin designed for production of Blown films needing excellent optics, superior film strength and excellent heat seal performance. LLMF-118D applications include heavy duty packaging, ice bags and sealant layer in coextrusions. LLMF-118D contains medium slip, high antiblock and process aid. LLMF-118D complies with FDA regulation 21CFR 177.1520(c)3.2a, conditions of use B-H.

| General Information | | | |
|---|-------------------------------|-------------------|-------------|
| Additive | High caking resistance | | |
| | Processing aid | | |
| | Moderate smoothness | | |
| Features | High caking resistance | | |
| | Optical | | |
| | Good strength | | |
| | Good heat sealability | | |
| | Compliance of Food Exposure | | |
| | Moderate smoothness | | |
| Uses | Packaging | | |
| | Films | | |
| | Bags | | |
| | Optical applications | | |
| Agency Ratings | FDA 21 CFR 177.1520(c) 3.2a 1 | | |
| Forms | Particle | | |
| Processing Method | Blow film | | |
| | Co-extrusion molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.918 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.0 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 25 | µm | ASTM D882 |
| secant modulus | | | |
| 1% secant, MD: 25 µm | 175 | MPa | ASTM D882 |
| 1% secant, TD: 25 µm | 191 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Yield, 25 µm | 10.7 | MPa | ASTM D882 |

| | | | |
|--|---------------|------|-------------|
| TD: Yield, 25 µm | 9.65 | MPa | ASTM D882 |
| MD: Break, 25 µm | 58.6 | MPa | ASTM D882 |
| TD: Break, 25 µm | 51.7 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Break, 25 µm | 450 | % | ASTM D882 |
| TD: Break, 25 µm | 600 | % | ASTM D882 |
| Dart Drop Impact ¹ (25 µm) | 760 | g | ASTM D1709 |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD : 25 µm | 230 | g | ASTM D1922 |
| TD : 25 µm | 500 | g | ASTM D1922 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (60°, 25.4 µm, Blown Film) | 93 | | ASTM D2457 |
| Haze (25.4 µm, Blown Film) | 11 | % | ASTM D1003 |
| Additional Information | | | |
| Film Specimen: 1.0 mils (25 µm) film; blow-up-ratio 2.5 :1; Melt temperature 400°F | | | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 204 | °C | |
| NOTE | | | |
| 1. | F50 | | |

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