



19F3B

Linear Low-Density Polyethylene Resin

Technical Data Sheet



Product Description

Shell Polymers 19F3B is a 2.7 MI-butene LLDPE cast film resin.



Highlights

- Produces films that have good drawdown, tensile and toughness
- Designed for the hand film stretch market
- Gas phase technology

Resin Properties	Method	Nominal Value
Density	ASTM D792	0.919 g/cm ³
Melt Index (190 °C / 2.16 kg)	ASTM D1238	2.7 g/10 min

Mechanical Properties	Method	Nominal Value (English)	Nominal Value (SI)
Thickness		1.0 mil	25 µm
Tear Strength, MD	ASTM D1922	60 g	60 g
Tear Strength, TD	ASTM D1922	396 g	396 g
Dart Drop Impact	ASTM D1709	60 g	60 g
Tensile Strength at Break, MD	ASTM D882	6580 psi	45.4 MPa
Tensile Strength at Break, TD	ASTM D882	3640 psi	25.1 MPa
Tensile Strength at Yield, MD	ASTM D882	1260 psi	8.7 MPa
Tensile Strength at Yield, TD	ASTM D882	1300 psi	9.0 MPa
Tensile Elongation at Break, MD	ASTM D882	614 %	614 %
Tensile Elongation at Break, TD	ASTM D882	984 %	984 %
1% Secant Modulus, MD	ASTM D882	20160 psi	139 MPa
1% Secant Modulus, TD	ASTM D882	25960 psi	179 MPa

Optical Properties	Method	Nominal Value (English)	Nominal Value (SI)
Haze	ASTM D1003	2 %	2 %
Gloss at 45°	ASTM D2457	33	33

Thermal Properties	Method	Nominal Value (English)	Nominal Value (SI)
Vicat Softening Temperature	ASTM D1525	204 °F	95.6 °C
Peak Melting Temperature	ASTM D1525	252 °F	122 °C

Additives

Thermal Stabilizer



Notes

Typical properties only. Not to be construed as specifications. Users should confirm results by performing their own tests.

Processing Statement:

Film properties are typical for cast film products. Properties will vary with process conditions.

Regulatory Statement:

- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a or 3.2a
- Consult the Regulatory Data Sheet for more details. It is available upon request. Please contact your Account Manager.

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