

<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow Index, g/10 min 190 ^o C/2.16 kg	0.23	D1238
190 ^o C/21.6 kg HLMI	20.0	
Density, g/cm ³	0.937	D792
Melting Point, ^o F	259	D3417

Mechanical Properties⁽¹⁾⁽²⁾

Dart Impact, g	< 50	D1709, A
Elmendorf Tear, g (MD/TD)	18 / 1350	D1922
Tensile Str. @ Yield, psi (MD/TD)	1800 / 2800	D882, A
Tensile Str. @ Break, psi (MD/TD)	8300 / 5300	D882, A
Elongation at Break, % (MD/TD)	500 / 900	D882, A
1% Secant Modulus, kpsi (MD/TD)	64 / 85	D882, A
WVTR ⁽⁴⁾ , g/100in ² /day	0.8	E 96/66

High Stalk Extrusion⁽³⁾

Dart Impact, g	130	D1709, A
Elmendorf Tear, g (MD/TD)	50 / 500	D1922
Tensile Str. @ Yield, psi (MD/TD)	3100 / 3100	D882, A
Tensile Str. @ Break, psi (MD/TD)	5900 / 5000	D882, A
Elongation at Break, % (MD/TD)	600 / 700	D882, A
WVTR, g/100in ² /day	0.7	E 96/66

Processing

Recommendation

Extrusion Melt Temperature, ^o F	380 – 420
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- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
- (2) Film was produced at 1.0 mil with a 2.5 BUR.
- (3) Film was produced at 1.0 mil with a 6:1 FLH/D ratio and 4:1 BUR.
- (4) Water Vapor Transmission Rate

Polyethylene

Medium Molecular Weight
Medium Density Film
Resin

Characteristics

- Excellent balance of stiffness and impact strength
- Good puncture resistance
- Excellent compatibility with LDPE and LLDPE
- Good tensile strength
- Good heat sealing characteristics

Applications

- Specialty merchandise bags
- Mailing envelopes
- Heavy-duty shipping sacks
- Pallet shrink films
- Fresh cut produce packaging
- Coextrusion

MDPE HL 328 01/2006



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