

Description

Polyethylene MDPE HL 323: Excellent balance of stiffness and impact strength; good puncture resistance; excellent compatibility with LDPE and LLDPE; good tensile strength; good heat sealing characteristics.

Applications: MDPE HL 323 is recommended for specialty merchandise bags, mailing envelopes, heavy-duty shipping sacks, pallet shrink films, fresh cut produce packaging, coextrusion.

Characteristics

	Method	Unit	Typical Value
Rheological Properties⁽¹⁾			
Melt Flow Index	D-1238	g/10 min	
190°C/2.16 kg			0.23
190°C/21.6 kg (HLMI)			20.0
Mechanical Properties⁽¹⁾⁽²⁾			
Dart Impact	D-1709, A	g	<50
Elmendorf Tear	D-1922	g (MD/TD)	18 / 1350
Tensile Strength @ Yield	D-882, A	psi (MD/TD)	1800 / 2800
Tensile Strength @ Break	D-882, A	psi (MD/TD)	8300 / 5300
Elongation at Break	D-882, A	% (MD/TD)	500 / 900
1% Secant Modulus	D-882, A	kpsi (MD/TD)	64 / 85
WVTR ⁽³⁾	F-1294	g/100in ² /day	0.8
Thermal Properties⁽¹⁾			
Extrusion Melting Temperature		°F	380 - 420
Melting Point	D-3417	°F	259
Other Physical Properties			
Density	D-792	g/cm	0.937

(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) Water Vapor Transmission Rate