

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

MDPE HL 323 6/2015



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Polyethylene



All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TOTAL products must be guided by the users own methods for selection of proper formulation. TOTAL PETROCHEMICALS & REFINING USA, INC. disclaims any responsibility for misuse or miss application of its products. TOTAL MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL'S liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.