

Description

HDPE M6410: Unique combination of high stiffness and clarity, excellent moisture barrier properties, good processing and compatibility with LDPE and LLDPE

Applications: Paper, cup and plate overwrap, envelope windows, release liners, stand-up bags, cereal liners, specialty monolayer films, and coextruded films

Characteristics

	Method	Unit	Typical Value
Rheological Properties⁽¹⁾			
Melt Flow Index	D-1238	g/10 min	
190°C/2.16 kg			1.2
Mechanical Properties⁽¹⁾⁽²⁾			
Haze	D1003	%	24
Gloss	D523	%	36
Elmendorf Tear	D1922	g (MD/TD)	38 / 100
Tensile Strength @ Yield	D-882, A, 20 in/min	psi (MD/TD)	3300 / 3900
Tensile Strength @ Break	D-882, A, 20 in/min	psi (MD/TD)	4700 / 4700
Elongation at Break	D-882, A, 20 in/min	% (MD/TD)	900 / 1100
Secant Modulus			
1% strain	D-882, A, 20 in/min	kpsi (MD/TD)	100/131
2% strain	D-882, A, 20 in/min	kpsi (MD/TD)	76/102
WVTR ⁽³⁾ @ 100°F	F1249	g/100in ² /day	0.10
Thermal Properties⁽¹⁾			
Melting Point	D-3417	°F	273
Other Physical Properties			
Density	D-792	g/cm ³	0.956

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
 (2) Film was produced at 2.0 mil with a 2.5 BUR.
 (3) Water Vapor Transmission Rate

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