

Description

HDPE 2287: Broad molecular weight distribution, excellent tear strength, exceptional impact strength, Superior processability, Designed for die build-up sensitive equipment

Applications: T-shirts sacks; trash can liners, merchandise bags, deli wrap

Characteristics

	Method	Unit	Typical Value
Rheological Properties⁽¹⁾			
Melt Flow Index	D-1238	g/10 min	
190°C/2.16 kg			0.08
190°C/5 kg			0.32
190°C/21.6 kg (HLMI)			11.0
Mechanical Properties⁽¹⁾⁽²⁾			
Dart Impact	D-1709, A	g	350
Elmendorf Tear	D-1922, A,	g (MD / TD)	24 / 120
Tensile Strength @ Yield	D-882, A, 20 in/min	psi (MD / TD)	5300 / 5000
Tensile Strength @ Break	D-882, A, 20 in/min	psi (MD / TD)	9200 / 9800
Elongation at Break	D-882, A, 20 in/min	% (MD / TD)	300-500 / 300-500
Secant Modulus of Elasticity @ 2% strain	D-882, A, 20 in/min	psi (MD / TD)	122,000 / 132,000
WVTR ⁽³⁾ @ 100°F	E 96-66	g/100in ² /day	0.8
Thermal Properties⁽¹⁾			
Melting Point	D-3417	°F	270
Other Physical Properties			
Density	D-792	g/cm ³	0.951

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) Film was produced at 0.8 mil on a 50 mm Alpine extruder with a 4:1 BUR.

(3) Water Vapor Transmission Rate

HDPE 2287 05/2017