

Description

HDPE HL 428: Excellent processability, good tear and impact strength, good stiffness, excellent compatibility with LDPE and LLDPE, Excellent drawdown, good moisture barrier properties.

Applications: Multi-wall liner, gas flush poultry bags, mailing envelopes, heavy-duty shipping sacks, fresh cut produce packaging, coextrusions.

Characteristics

	Method	Unit	Typical Value
Rheological Properties⁽¹⁾			
Melt Flow Index	D-1238	g/10 min	
190°C/2.16 kg			.28
190°C/21.6 kg (HLMI)			20.0
Mechanical Properties⁽¹⁾⁽²⁾			
Dart Impact	D1709, A	g	<50
Elmendorf Tear	D1922	g (MD/TD)	10 / 1450
Tensile Strength @ Yield	D-882, A	psi (MD/TD)	3400 / 3800
Tensile Strength @ Break	D-882, A	psi (MD/TD)	9000 / 2700
Elongation at Break	D-882, A	% (MD/TD)	450 / 600
1% Secant Modulus	D-882, A	kpsi (MD/TD)	103 / 145
WVTR ⁽³⁾	F1249	g/100in ² /day	0.7
High Stalk Extrusion⁽⁴⁾			
Dart Impact	D1709, A	g	100
Elmendorf Tear	D1922	g (MD/TD)	28 / 530
Tensile Strength @ Yield	D-882, A	psi (MD/TD)	3500 / 3700
Tensile Strength @ Break	D-882, A	psi (MD/TD)	7900 / 5700
Elongation at Break	D-882, A	% (MD/TD)	600 / 700
WVTR ⁽³⁾	F1249	g/100in ² /day	0.5
Thermal Properties			
Melting Point	D3417	°F	267
Processing Recommendation			
Extrusion Melt Temperature		°F	380-420
Other Physical Properties			
Density	D-792	g/cm ³	0.947

(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

(4) Film was produced at 1.0 mil with a 6:1 FLH/D ratio and 4:1 BUR.

HDPE HL 428 06/2015



TOTAL PETROCHEMICALS & REFINING USA, INC.
 POLYMERS AMERICAS
www.totalrefiningchemicals.com
 1201 Louisiana Street
 Suite 1800
 Houston, TX 77002

TECHNICAL CENTER
 P.O. Box 1200
 Deer Park, Texas 77536
 Phone: 281-884-7500

1-800-344-3462
