

Description

HDPE D4720: 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			0.28
190°C/21.6 kg			20.0
Mechanical Properties⁽¹⁾⁽²⁾			
Dart Impact	D-1709	g	<50
Elmendorf Tear	D-1922	g (MD/TD)	10 / 1,450
Tensile Strength @ Yield	D882, A	psi (MD/TD)	3,400 / 3,800
Tensile Strength @ Break	D882, A	psi (MD/TD)	9,000 / 2,700
Elongation at Break	D882, A	% (MD/TD)	450 / 600
1% Secant Modulus	D882, A	psi (MD/TD)	103 / 145
High Stalk Extrusion⁽⁴⁾			
Dart Impact	D-1709, A	g	100
Elmendorf Tear	D-1922	g (MD/TD)	28 / 530
Tensile Strength @ Yield	D882, A	psi (MD/TD)	3,500 / 3,700
Tensile Strength @ Break	D882, A	psi (MD/TD)	700 / 5700
Elongation @ Break	D882, A	% (MD/TD)	600 / 700
WVTR	E-96/66	g/100in ² /day	0.5
Thermal Properties⁽¹⁾⁽²⁾			
Melting Point	D-3417	°F	264
Other Physical Properties			
Density	D-792	g/cm ³	0.945
Processing Recommendations			
Extrusion Melt Temperature		°F	380 - 420

(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 a 4:1 BUR