TOTAL Polyethylene HDPE D4720

High Density (MMW) Polyethylene TOTAL Refining & Chemicals

Message:

HDPE 4720 Polyethylene:

Medium Molecular Weight High Density Film Resin

Characteristics

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

General Information	
Features	Good Drawdown
	Good Impact Resistance
	Good Processability
	Good Tear Strength
	High Density
	High Stiffness
	Medium Molecular Weight
	Moisture Resistant
Uses	Bags
	Food Packaging
	Heavy-duty Bags
	Liners
	Packaging
Processing Method	Blown Film
	Coextrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.947	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.28	g/10 min	
190°C/21.6 kg	20	g/10 min	

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Secant Modulus ¹			ASTM D882A
1% Secant, MD : 25 μm	710	MPa	
1% Secant, TD : 25 μm	1000	MPa	
Tensile Strength			ASTM D882A
MD : Yield,25 µm ²	24.1	MPa	
MD : Yield,25 µm ³	23.4	MPa	
TD : Yield,25 µm ⁴	25.5	MPa	
TD : Yield,25 µm ⁵	26.2	MPa	
MD : Break, 25 μm ⁶	4.83	MPa	
MD : Break, 25 μm ⁷	62.1	MPa	
TD : Break, 25 µm ⁸	39.3	MPa	
TD : Break, 25 μm ⁹	18.6	MPa	
Tensile Elongation			ASTM D882A
MD : Break, 25 μm ¹⁰	600	%	
MD : Break, 25 μm ¹¹	450	%	
TD : Break, 25 μm ¹²	700	%	
TD : Break, 25 μm ¹³	600	%	
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm ¹⁴	28	g	
MD : 25 μm ¹⁵	10	g	
TD : 25 μm ¹⁶	530	g	
TD : 25 µm ¹⁷	1500	g	
Water Vapor Transmission Rate ¹⁸ (38°C,		2	
25 μm)	7.8	g/m²/24 hr	ASTM E96
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	131	°C	ASTM D3417
Additional Information	Nominal Value	Unit	Test Method
Dart Impact			ASTM D1709
25.4 µm ¹⁹	100	g	
25.4 µm ²⁰	< 50	g	
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 216	°C	
NOTE			
1.	Film was produced at 1.0 mil with a 2.5 BUR		
2.	High Stalk Extrusion - Film was produced at 1.0 mil with a 6:1 FLH/D ratio and a 4:1 BUR		
3.	Film was produced at 1.0 mil with a 2.5 BUR		

	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
4.	FLH/D ratio and a 4:1 BUR
	Film was produced at 1.0 mil with a
5.	2.5 BUR
	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
6.	FLH/D ratio and a 4:1 BUR
	Film was produced at 1.0 mil with a
7.	2.5 BUR
	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
8.	FLH/D ratio and a 4:1 BUR
	Film was produced at 1.0 mil with a
9.	2.5 BUR
	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
10.	FLH/D ratio and a 4:1 BUR
11.	Film was produced at 1.0 mil with a 2.5 BUR
11.	
	High Stalk Extrusion - Film was
12	produced at 1.0 mil with a 6:1
12.	FLH/D ratio and a 4:1 BUR
	Film was produced at 1.0 mil with a
13.	2.5 BUR
	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
14.	FLH/D ratio and a 4:1 BUR
	Film was produced at 1.0 mil with a
15.	2.5 BUR
	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
16.	FLH/D ratio and a 4:1 BUR
	Film was produced at 1.0 mil with a
17.	2.5 BUR
	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
18.	FLH/D ratio and a 4:1 BUR
	High Stalk Extrusion - Film was
	produced at 1.0 mil with a 6:1
19.	FLH/D ratio and a 4:1 BUR
20.	Film was produced at 1.0 mil with a 2.5 BUR
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