

TOTAL Polyethylene HDPE HL 428

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene HL 428 is a High Density (MMW) Polyethylene material. It is available in North America for coextrusion.

Important attributes of TOTAL Polyethylene HL 428 are:

REACH Compliant

Good Processability

Good Stiffness

Good Tear Strength

Impact Resistant

Typical applications include:

Bags/Liners

Film

Packaging

General Information			
Features	Barrier Resin		
	Good Drawdown		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Good Tear Strength		
Uses	Bags		
	Film		
	Heavy-duty Bags		
	Liners		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.947	g/cm ³	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
Secant Modulus ¹			ASTM D882A
1% Secant, MD : 25 µm, Blown Film	710	MPa	
1% Secant, TD : 25 µm, Blown Film	1000	MPa	
Tensile Strength			ASTM D882A

MD : Yield,25 µm, Blown Film ²	24.1	MPa	
MD : Yield,25 µm, Blown Film ³	23.4	MPa	
TD : Yield,25 µm, Blown Film ⁴	25.5	MPa	
TD : Yield,25 µm, Blown Film ⁵	26.2	MPa	
MD : Break, 25 µm,Blown Film ⁶	54.5	MPa	
MD : Break, 25 µm,Blown Film ⁷	62.1	MPa	
TD : Break, 25 µm,Blown Film ⁸	39.3	MPa	
TD : Break, 25 µm,Blown Film ⁹	18.6	MPa	
Tensile Elongation			ASTM D882A
MD : Break, 25 µm,Blown Film ¹⁰	600	%	
MD : Break, 25 µm,Blown Film ¹¹	450	%	
TD : Break, 25 µm,Blown Film ¹²	700	%	
TD : Break, 25 µm,Blown Film ¹³	600	%	
Dart Drop Impact			ASTM D1709A
25 µm, Blown Film ¹⁴	100	g	
25 µm, Blown Film ¹⁵	< 50	g	
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film ¹⁶	28	g	
MD : 25 µm, Blown Film ¹⁷	10	g	
TD : 25 µm, Blown Film ¹⁸	530	g	
TD : 25 µm, Blown Film ¹⁹	1500	g	
Water Vapor Transmission Rate			ASTM F1249
25 µm ²⁰	11	g/m ² /24 hr	
25 µm, Blown Film ²¹	7.8	g/m ² /24 hr	
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	131	°C	ASTM D3417
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 216	°C	
NOTE			
1.	2.5 BUR		
2.	High Stalk, 6:1 FLH/D, 4:1 BUR		
3.	2.5 BUR		
4.	High Stalk, 6:1 FLH/D, 4:1 BUR		
5.	2.5 BUR		
6.	High Stalk, 6:1 FLH/D, 4:1 BUR		
7.	2.5 BUR		
8.	High Stalk, 6:1 FLH/D, 4:1 BUR		
9.	2.5 BUR		
10.	High Stalk, 6:1 FLH/D, 4:1 BUR		
11.	2.5 BUR		
12.	High Stalk, 6:1 FLH/D, 4:1 BUR		
13.	2.5 BUR		

14.	High Stalk, 6:1 FLH/D, 4:1 BUR
15.	2.5 BUR
16.	High Stalk, 6:1 FLH/D, 4:1 BUR
17.	2.5 BUR
18.	High Stalk, 6:1 FLH/D, 4:1 BUR
19.	2.5 BUR
20.	2.5 BUR
21.	High Stalk, 6:1 FLH/D, 4:1 BUR

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