

TOTAL Polyethylene HDPE 5908

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

HDPE 5908 Polyethylene PRELIMINARY:
Clarity Medium Molecular Weight High Density Film Resin
Characteristics
Unique combination of high stiffness and clarity
Good moisture barrier properties
Good compatibility with LDPE and LLDPE
Applications
Cereal liners
Paper overwrap
Envelope windows
Stand-up bags
Release liners
Coextruded films

General Information			
Features	High Clarity		
	High Density		
	High Stiffness		
	Medium Molecular Weight		
	Moisture Resistant		
Uses	Bags		
	Film		
	Food Packaging		
	Packaging		
	Thin-walled Packaging		
Processing Method	Blown Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.959	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.80	g/10 min	
190°C/21.6 kg	22	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested ¹	25	µm	
Secant Modulus ²			ASTM D882A
1% Secant, MD : 25 µm	1030	MPa	
2% Secant, MD : 25 µm	689	MPa	

1% Secant, TD : 25 μm	883	MPa	
2% Secant, TD : 25 μm	703	MPa	
Tensile Strength ³			ASTM D882A
MD : Yield,25 μm	31.0	MPa	
TD : Yield,25 μm	31.0	MPa	
MD : Break, 25 μm	62.1	MPa	
TD : Break, 25 μm	24.1	MPa	
Tensile Elongation ⁴			ASTM D882A
MD : Break, 25 μm	600	%	
TD : Break, 25 μm	300	%	
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm	24	g	
TD : 25 μm	390	g	
Water Vapor Transmission Rate (38°C, 25 μm)		g/m ² /24 hr	ASTM E96
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	135	°C	ASTM D3417
Optical	Nominal Value	Unit	Test Method
Gloss	50		ASTM D523
Haze	15	%	ASTM D1003
NOTE			

- | | |
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| 1. | 2.5:1 BUR in a low stalk configuration |
| 2. | 25 mm/min |
| 3. | 510 mm/min |
| 4. | 510 mm/min |

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