

TOTAL Polyethylene HDPE 9260

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

- HDPE 9260 Polyethylene:
- Medium Molecular Weight High Density Film Resin
- Characteristics
- High barrier grade
- Good processability
- High stiffness
- Low gels
- Applications
- Cereal liners
- Cracker over-wrap
- Bakery mixes
- Specialty monolayer films
- Coextruded films

General Information			
Features	Low speed solidification crystal point		
	Moisture resistance		
	Rigidity, high		
	High density		
	Workability, good		
	Medium molecular weight		
Uses	Packaging		
	Thin wall packaging		
	Films		
	Food packaging		
Processing Method	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested ¹	51	µm	
secant modulus ²			ASTM D882A
1% secant, MD: 51 µm	965	MPa	ASTM D882A
2% secant, MD: 51 µm	758	MPa	ASTM D882A
1% secant, TD: 51 µm	1240	MPa	ASTM D882A

2% secant, TD: 51 μm	931	MPa	ASTM D882A
Tensile Strength ³			ASTM D882A
MD: Yield, 51 μm	29.0	MPa	ASTM D882A
TD: Yield, 51 μm	24.8	MPa	ASTM D882A
Tensile Elongation ⁴			ASTM D882A
MD: Fracture, 51 μm	850	%	ASTM D882A
TD: Fracture, 51 μm	500	%	ASTM D882A
Water Vapor Transmission Rate (38°C, 51 μm)	1.9	$\text{g/m}^2/24 \text{ hr}$	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	135	°C	ASTM D3417
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 221	°C	
Extrusion instructions			
BUR: 2.0 to 3.5FLH/D: 4.0 to 6.0			
NOTE			
1.	2.5:1 BUR		
2.	25 mm/min		
3.	510 mm/min		
4.	510 mm/min		

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