

Hanwha Total PE 4220F

Linear Low Density Polyethylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

Hanwha Total PE 4220F is a linear low density polyethylene product. It can be processed by blowing film and is available in North America or Asia Pacific. The application areas of Hanwha Total PE 4220F include bags/linings and packaging.

Features include:

- Copolymer
- slide
- Good processability
- Good tear strength
- Good sealing performance

General Information			
Additive	Low smoothness		
Features	Low smoothness		
	Low density		
	Copolymer		
	Optical		
	Impact resistance, high		
	Workability, good		
	Good heat sealability		
	Good tear strength		
Uses	General		
	Packaging		
	Bags		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	μm	
Tensile Strength			ASTM D882
MD: Yield, 38 μm	9.81	MPa	ASTM D882
TD: Yield, 38 μm	10.8	MPa	ASTM D882
MD: Fracture, 38 μm	40.2	MPa	ASTM D882
TD: Fracture, 38 μm	31.4	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Fracture, 38 μm	620	%	ASTM D882
TD: Fracture, 38 μm	840	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm	150	g	ASTM D1922
TD : 25 μm	370	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	100	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 μm)	55		ASTM D2457
Haze (38.0 μm)	11	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170 - 190	°C	
Cylinder Zone 2 Temp.	170 - 190	°C	
Cylinder Zone 3 Temp.	170 - 190	°C	
Cylinder Zone 4 Temp.	170 - 190	°C	
Cylinder Zone 5 Temp.	170 - 190	°C	
Die Temperature	190 - 200	°C	
Extrusion instructions			

Blow up ratio: 1.0 to 2.0

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