

Hanwha Total PE 4222F

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

Message:

4222F is a linear low-density polyethylene resin for heavy duty films for packaging. This grade is designed to be processed in conventional blown film equipment. 4222F is a butene comonomer grade.

General Information			
Features	Low density		
	Butene comonomer		
	High tensile strength		
	Perforation resistance		
	Impact resistance, high		
	Workability, good		
	Good heat sealability		
	Good flexibility		
	Good tear strength		
Uses	Packaging		
	Films		
	Mixing		
	Heavy packing bag		
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)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Yield	9.81	MPa	ASTM D882
TD: Yield	10.8	MPa	ASTM D882
MD: Fracture	40.2	MPa	ASTM D882
TD: Fracture	31.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	620	%	ASTM D882
TD: Fracture	840	%	ASTM D882
Dart Drop Impact	150	g	ASTM D1709
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
Vicat Softening Temperature	100	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	55		ASTM D2457
Haze	11	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 - 210	°C	
Cylinder Zone 2 Temp.	150 - 210	°C	
Cylinder Zone 3 Temp.	150 - 210	°C	
Cylinder Zone 4 Temp.	150 - 210	°C	
Cylinder Zone 5 Temp.	150 - 210	°C	
Die Temperature	210 - 240	°C	
Extrusion instructions			
Blow up ratio: 1 to 2			
NOTE			
1. 压力1 (10N)			

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