Hanwha Total PE 531G

Low Density Polyethylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

531G is a low-density polyethylene resin for protestive films. This grade is designed to be processed in conventional blown film equipment.

General Information					
Features	Low density				
	Low speed solidification crystal point				
	Highlight				
	High tensile strength				
	Optical				
	Workability, good				
	Excellent appearance				
Uses	Films				
	Shrinkable film				
Appearance	Clear/transparent				
Forms	Particle				
Processing Method	Blow film				
Physical	Nominal Value	Unit	Test Method		
Density	0.924	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength (Break)	12.7	MPa	ASTM D638		
Tensile Elongation (Break)	700	%	ASTM D638		
Coefficient of Friction	0.25		ASTM D1894		
Films	Nominal Value	Unit	Test Method		
Film Thickness - Tested	40	μm			
Tensile Strength			ASTM D882		
MD: Break, 40 μm	22.6	MPa	ASTM D882		
TD: Break, 40 µm	15.7	MPa	ASTM D882		
Tensile Elongation			ASTM D882		
MD: Break, 40 µm	240	%	ASTM D882		
TD: Break, 40 µm	590	%	ASTM D882		
Dart Drop Impact (40 µm)	65	g	ASTM D1709		
Thermal	Nominal Value	Unit	Test Method		
Brittleness Temperature	-70.0	°C	ASTM D746		

Vicat Softening Temperature	95.0	°C	ASTM D1525 ¹
Melting Temperature	113	°C	
Optical	Nominal Value	Unit	Test Method
Haze (40.0 μm)	6.0	%	ASTM D1003
Additional Information			
Blocking, SAMSUNG TOTAL: 650 g/10	Ocm ³		
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 - 160	°C	
Cylinder Zone 2 Temp.	150 - 160	°C	
Cylinder Zone 3 Temp.	150 - 160	°C	
Cylinder Zone 4 Temp.	150 - 160	°C	
Cylinder Zone 5 Temp.	150 - 160	°C	
Die Temperature	160	°C	
Extrusion instructions			
Blow up ratio: 1 to 2			
NOTE			
1.	压 力1 (10N)		

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