

Hanwha Total PE 431G

Low Density Polyethylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:
431G is a low-density polyethylene resin for protective 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/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	14.7	MPa	ASTM D638
Tensile Elongation (Break)	740	%	ASTM D638
Coefficient of Friction	0.12		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	μm	
Tensile Strength			ASTM D882
MD: Break, 40 μm	23.5	MPa	ASTM D882
TD: Break, 40 μm	17.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 40 μm	240	%	ASTM D882
TD: Break, 40 μm	600	%	ASTM D882
Dart Drop Impact (40 μm)	70	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746

