

Sumitomo PE F0554

High Density Polyethylene
Sumitomo Chemical Asia

Message:

Applications: For shopping and grocery bags, perforated rolls, trash bags, and industrial liners.
Characteristics: Bimodal blown film grade having high tensile and impact strength, good stiffness and barrier properties with a wide molecular weight distribution for easy processing. Performs well under heavy load conditions.

General Information			
Features	Rigidity, high		
	High tensile strength		
	Impact resistance, high		
	Wide molecular weight distribution		
	Barrier resin		
Uses	Films		
	Lining		
	Bags		
	Heavy packing bag		
Agency Ratings	EU 2004/19/EC		
	FDA 21 CFR 177.1520		
	European 2002/72/EC		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.050	g/10 min	ASTM D1238
190°C/21.6 kg	9.3	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD ¹	990	MPa	ASTM D882
1% secant, MD ²	930	MPa	ASTM D882
1% secant, TD ³	1140	MPa	ASTM D882
1% secant, TD ⁴	1030	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture ⁵	75.0	MPa	ASTM D882
MD: Fracture ⁶	70.0	MPa	ASTM D882
TD: Fracture ⁷	55.0	MPa	ASTM D882

TD: Fracture ⁸	65.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture ⁹	520	%	ASTM D882
MD: Fracture ¹⁰	560	%	ASTM D882
TD: Fracture ¹¹	560	%	ASTM D882
TD: Fracture ¹²	550	%	ASTM D882
Dart Drop Impact			ASTM D1709
-- ¹³	250	g	ASTM D1709
-- ¹⁴	330	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD ¹⁵	11	g	ASTM D1922
MD ¹⁶	17	g	ASTM D1922
TD ¹⁷	78	g	ASTM D1922
TD ¹⁸	39	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ASTM D1525 ¹⁹
Additional Information			
Film fabrication condition: extruder @55mm, die @90mm, die gap 1.35mm, temperature 200°C, output 55kg/hr, BUR 4.9, thickness 25µm.			
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 230	°C	
Extrusion instructions			
Blow-up Ratio: 3 to 5			
NOTE			
1.	With stabilizer		
2.	without stabilizer		
3.	With Stabilizer		
4.	Without stabilizer		
5.	With stabilizer		
6.	Without stabilizer		
7.	With stabilizer		
8.	Without stabilizer		
9.	With stabilizer		
10.	Without stabilizer		
11.	With stabilizer		
12.	Without stabilizer		
13.	With stabilizer		
14.	Without stabilizer		
15.	With stabilizer		
16.	Without stabilizer		
17.	With stabilizer		
18.	Without stabilizer		
19.	速率 A (50°C/h), 压 力1 (10N)		

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