

Asrene® SF 5008E

High Density Polyethylene
Chandra Asri Petrochemical

Message:

It is an environmentally degradable HDPE which is supplied in natural pellet form and suitable for extrusion of a wide variety of film applications.

General Information	
Features	High molecular weight
	High strength
	hexene comonomer
	Biodegradable
Uses	Films
	Bags

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.050	g/10 min	ASTM D1238
190°C/21.6 kg	15	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	> 500	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1100	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Elastic Modulus - MD (20 µm, Blown Film)	850	MPa	ASTM D882
Elastic Modulus - TD (20 µm, Blown Film)	1050	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 20 µm, blown film	100	MPa	ASTM D882
TD: Broken, 20 µm, blown film	55.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 20 µm, blown film	500	%	ASTM D882
TD: Broken, 20 µm, blown film	700	%	ASTM D882
Dart Drop Impact (20 µm, Blown Film)	130	g	ASTM D1709
Elmendorf Tear Strength ¹			ASTM D1922
MD : 20.0 µm	6.9	kN/m	ASTM D1922
TD : 20.0 µm	147.1	kN/m	ASTM D1922
Impact Strength - Blown Film (20.0 µm)	34.3	J/cm	ASTM D3420
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	< -70.0	°C	ASTM D746
Peak Melting Temperature	132	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 220	°C	
Extrusion instructions			
Blow-up Ratio: 3 to 5			
NOTE			
1.	Blown Film		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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