

Asrene® SF 5007

High Density Polyethylene

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Message:

Asrene®SF 5007 is a high density polyethylene product. It is available in North America, Europe or Asia Pacific. Asrene®SF 5007 applications include bags/linings, packaging, movies and industrial applications.

Features include:

high molecular weight

high strength

hexene comonomer

Good processability

accessible food

General Information

Features	High molecular weight High tensile strength hexene comonomer Impact resistance, high Workability, good Good tear strength Compliance of Food Exposure
Uses	Packaging Films Lining Bags Industrial application

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
Vicat Softening Temperature	127	°C	ASTM D1525
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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