

Asrene® SM 5508

High Density Polyethylene
Chandra Asri Petrochemical

Message:

Asrene®SM 5508 is a high density polyethylene product. It can be processed by film extrusion, co-extrusion or filament extrusion, and is available in North America, Europe or Asia Pacific. Asrene®SM 5508 applications include movies, slings/ropes, textiles/fibers, glue/gummed paper and yarns. Features include:
high strength
Good processability
accessible food

General Information	
Features	High tensile strength Workability, good Compliance of Food Exposure
Uses	Films Laminate Strap monofilament Rope Web Line
Processing Method	Film extrusion Co-extrusion molding Filament extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	155	hr	ASTM D1693
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Elastic Modulus - MD (20 µm, Blown Film)	600	MPa	ASTM D882
Elastic Modulus - TD (20 µm, Blown Film)	750	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 20 µm, blown film	70.0	MPa	ASTM D882
TD: Broken, 20 µm, blown film	60.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 20 µm, blown film	650	%	ASTM D882
TD: Broken, 20 µm, blown film	750	%	ASTM D882
Dart Drop Impact (20 µm, Blown Film)	50	g	ASTM D1709
Elmendorf Tear Strength ¹			ASTM D1922
MD : 20.0 µm	11.8	kN/m	ASTM D1922
TD : 20.0 µm	58.8	kN/m	ASTM D1922
Impact Strength - Blown Film (20.0 µm)	15.7	J/cm	ASTM D3420
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	129	°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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