

SCLAIR® 19G

High Density Polyethylene
NOVA Chemicals

Message:

SCLAIR® 19G is a high density polyethylene material. This product is available in North America and is processed by film extrusion or co-extrusion.

SCLAIR® The main features of 19G are:

- High stiffness
- Good processability
- Homopolymer
- accessible food
- Stable

Typical application areas include:

- packing
- Movie
- food contact applications

General Information	
Additive	Processing stabilizer
Features	Low speed solidification crystal point
	Rigidity, high
	High density
	Homopolymer
	Workability, good
	Compliance of Food Exposure
	Barrier resin
Uses	Films
	Food packaging
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2
Forms	Particle
Processing Method	Film extrusion
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
secant modulus			ASTM D882
1% secant, MD: 38 µm, blown film	840	MPa	ASTM D882

1% secant, TD: 38 µm, blown film	1270	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	25.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	23.0	MPa	ASTM D882
MD: Broken, 38 µm, blown film	38.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	23.0	MPa	ASTM D882
Dart Drop Impact (38 µm, Blown Film)	29	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	24	g	ASTM D1922
TD: 38 µm, blown film	450	g	ASTM D1922
Oxygen Transmission Rate (23°C, 0% RH, 38 µm, blown film)	1600	cm ³ /m ² /24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 100% RH, 38 µm, Blown Film)	2.8	g/m ² /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	129	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm, Blown Film)	14		ASTM D2457
Haze (38.0 µm, Blown Film)	41	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (38.0 µm)	190	J/cm	Internal method
Extrusion instructions			

Blow-up Ratio: 2.5:1 to 4:1 Die Gap: 1.3 to 2.5 mm

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