

SCLAIR® 19A

High Density Polyethylene
NOVA Chemicals

Message:

SCLAIR® 19A 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 19A are:

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

Typical application areas include:

- Movie
- food contact applications
- additive/masterbatch

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
	Mixing
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	0.962	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.72	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	830	MPa	ASTM D882

1% secant, TD: 38 µm, blown film	1330	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	27.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	22.0	MPa	ASTM D882
MD: Broken, 38 µm, blown film	39.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	22.0	MPa	ASTM D882
Dart Drop Impact (38 µm, Blown Film)	34	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	21	g	ASTM D1922
TD: 38 µm, blown film	470	g	ASTM D1922
Oxygen Transmission Rate (23°C, 0% RH, 38 µm, blown film)	1700	cm ³ /m ² /24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 100% RH, 38 µm, Blown Film)	3.4	g/m ² /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm, Blown Film)	5		ASTM D2457
Haze (38.0 µm, Blown Film)	78	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (38.0 µm)	230	J/cm	Internal method
Extrusion instructions			

Blow-up Ratio: 2.5:1 to 4:1

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT