

SCLAIR® 19C

High Density Polyethylene
NOVA Chemicals

Message:

SCLAIR® 19C 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 19C are:

- High stiffness
- processing aids
- Homopolymer
- accessible food
- Transparency

Typical application areas include:

- packing
- Movie
- food contact applications
- additive/masterbatch

General Information			
Additive	Processing stabilizer		
	Processing aid		
Features	Low speed solidification crystal point		
	Rigidity, high		
	High density		
	Homopolymer		
	Definition, high		
	Compliance of Food Exposure		
	Barrier resin		
Uses	Films		
	Mixing		
	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	0.958	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		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	1180	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 μm, blown film	25.0	MPa	ASTM D882
TD: Yield, 38 μm, blown film	27.0	MPa	ASTM D882
MD: Broken, 38 μm, blown film	42.0	MPa	ASTM D882
TD: Broken, 38 μm, blown film	40.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 μm, blown film	560	%	ASTM D882
TD: Broken, 38 μm, blown film	890	%	ASTM D882
Dart Drop Impact (38 μm, Blown Film)	44	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 μm, blown film	26	g	ASTM D1922
TD: 38 μm, blown film	710	g	ASTM D1922
Oxygen Transmission Rate (23°C, 0% RH, 38 μm, blown film)	1500	cm ³ /m ² /24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 100% RH, 38 μm, Blown Film)	2.6	g/m ² /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	131	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 μm, Blown Film)	23		ASTM D2457
Haze (38.0 μm, Blown Film)	36	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (38.0 μm)	200	J/cm	Internal method
Extrusion instructions			
Blow-up Ratio: 2.5:1 to 4:1 Die Gap: 0.9 to 2.2 mm			

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