

# SCLAIR® 99K

High Density Polyethylene  
NOVA Chemicals

Message:

SCLAIR® 99K is a high density polyethylene material. This product is available in North America.  
SCLAIR® The main features of 99K are:  
High stiffness  
high strength  
Good processability  
processing aids  
Homopolymer  
Typical application areas include:  
bag/lining  
food contact applications

General Information			
Additive	Processing stabilizer		
	Processing aid		
Features	Low speed solidification crystal point		
	Rigidity, high		
	High density		
	High strength		
	Homopolymer		
	Workability, good		
	Compliance of Food Exposure		
Uses	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.961	g/cm <sup>3</sup>	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
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
Extrusion instructions			

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

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#### Recommended distributors for this material

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