SCLAIR® 19H

High Density Polyethylene

NOVA Chemicals

Message:

SCLAIR®19H is a high density polyethylene material. This product is available in North America and is processed by film extrusion or coextrusion.
SCLAIR®The main features of 19H are:
High stiffness
Good processability
Homopolymer
accessible food
Stable
Typical application areas include:
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
Uses	Mixing
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2
Forms	Particle
Processing Method	Film extrusion Co-extruded film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.38	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	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	26.0	MPa	ASTM D882

TD: Yield, 38 µm, blown film	23.0	MPa	ASTM D882
MD: Broken, 38 µm, blown film	53.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	23.0	MPa	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	18	g	ASTM D1922
TD: 38 µm, blown film	1800	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)	4.2	$g/m^2/24$ 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)	5		ASTM D2457
Haze (38.0 µm, Blown Film)	81	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Low Friction Puncture - Blown Film (38.0 µm)	300	J/cm	Internal method
Extrusion instructions			

Blow-up Ratio: 5.5:1 to 4:1

Recommended distributors for this material

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WECHAT