SCLAIR® 14G

Medium Density Polyethylene

NOVA Chemicals

Message:

SCLAIR®14G is a medium density polyethylene material. This product is available in North America and is processed by film extrusion.
SCLAIR®The main features of 14G are:
Butene Comonomer
Good processability
processing aids
Antioxidants
accessible food
Typical application areas include:
Movie
food contact applications

General Information			
Additive	Processing aid Antioxidation		
Features	Low speed solidification crystal point Butene comonomer Antioxidation Workability, good Compliance of Food Exposure		
Uses	Films		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.936	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.72	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Blown Film)	0.24		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	38	µm	
secant modulus			ASTM D882
1% secant, MD: 38 µm, blown film	390	MPa	ASTM D882
1% secant, TD: 38 µm, blown film	520	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	17.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	17.0	MPa	ASTM D882

MD: Broken, 38 µm, blown film	34.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	29.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	600	%	ASTM D882
TD: Broken, 38 µm, blown film	900	%	ASTM D882
Dart Drop Impact (38 µm, Blown Film)	62	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	40	g	ASTM D1922
TD: 38 µm, blown film	130	g	ASTM D1922
Oxygen Permeability [1] (23°C, 38 µm, blown film)	2300	$cm^3/m^2/24$ hr	ASTM D1434
Water Vapor Transmission Rate (38°C, 100% RH, 38 µm, Blown Film)	5.2	$g/m^2/24$ hr	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-70.0	°C	ASTM D746
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Low Friction Puncture - Blown Film (38.0 µm)	240	J/cm	Internal method
Extrusion instructions			
Optimum Blow-up Ratio: 2:1 to 3:1Die Gap: 0.9 to 2.2 mm			
NOTE			
1.	0% RH		

Recommended distributors for this material

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