



SCLAIR® 2114

NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antioxidant		
Features	• Antioxidant • Food Contact Acceptable • Good Flexibility • Good Organoleptic Properties	• Good Processability • High ESCR (Stress Crack Resist.) • High Gloss • Low Density	• Low Temperature Impact Resistance • Warp Resistant
Uses	• Caps • Closures	• Compounding • Food Packaging	• Lids • Thin-walled Parts
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.927		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	52	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, F50	< 10.0	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	1450	psi	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus	50000	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -94.0	°F	ASTM D746
Vicat Softening Temperature	189	°F	ASTM D1525
Additional Information	Nominal Value	Unit	Test Method
Snake Flow	14	in	Internal Method

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min