



SCLAIR® 8107

NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antioxidant		
Features	• Antioxidant • Butene Comonomer	• Food Contact Acceptable • High ESCR (Stress Crack Resist.)	• Low Density • Low Temperature Impact Resistance
Uses	• Automotive Applications	• Food Containers	
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a		
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)	4.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, F50	> 1000	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	1520	psi	ASTM D638
Tensile Elongation ² (Break)	850	%	ASTM D638
Flexural Modulus	58000	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	196	°F	ASTM D1525

Notes

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

² 2.0 in/min