



SCLAIR® 2907

NOVA Chemicals - High Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antioxidant		
Features	• Antioxidant • Food Contact Acceptable	• Good Impact Resistance • Good Toughness	• High Gloss • High Stiffness
Uses	• Safety Equipment	• Sporting Goods	
Agency Ratings	• FDA 21 CFR 177.1520(c) 2.2		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.962		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	4.9	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)	4200	psi	ASTM D638
Tensile Elongation ² (Break)	1500	%	ASTM D638
Flexural Modulus	185000	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	264	°F	ASTM D1525

Notes

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

² 2.0 in/min