



SCLAIR® 2909

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	• High Density • High Gloss	• High Impact Resistance • High Stiffness
Uses	• Crates		
Agency Ratings	• FDA 21 CFR 177.1520(c) 2.2		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.964		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	13	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)	4210	psi	ASTM D638
Tensile Elongation ² (Break)	800	%	ASTM D638
Flexural Modulus	186000	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
Additional Information	Nominal Value	Unit	Test Method
Snake Flow	9.1	in	Internal Method

Notes

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

² 2.0 in/min