

NOVA Chemicals Sclair® 2909 HDPE Injection Molding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

High stiffness, Maximum impact strength and toughness, Good top loading capability, High surface gloss
 Applications: Tote boxes, Beverage crates
 Additives: Antioxidant, Ultraviolet light stabilizers
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-2909-HDPE-Injection-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.962 g/cc	0.0348 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	<= 10 hour	<= 10 hour	F₅₀; Condition A, 100% Igepal; ASTM D1693
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 190 °C	13 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Spiral Flow	23.0 cm	9.06 in	NOVA Snake Flow Test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	29.0 MPa	4210 psi	50 mm/min; ASTM D638
Elongation at Break	800 %	800 %	50 mm/min; ASTM D638
Flexural Modulus	1.28 GPa	186 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	129 °C	264 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 215 °C	338 - 419 °F	

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