

NOVA Chemicals Sclair® 2114 LLDPE Injection Molding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Injection Molded

Material Notes:

Features: High stiffness, high impact strength and low warpage, good top loading capability, high surface gloss. Applications: Container (tub) lids and closures. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-2114-LLDPE-Injection-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	<= 10 hour	<= 10 hour	F50, Condition A, ASTM D1693, 100% Igepal
Melt Flow	52 g/10 min @Load 2.16 kg, Temperature 190 °C	52 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Spiral Flow	36.0 cm	14.2 in	NOVA Snake Flow Test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength, Yield	10.0 MPa	1450 psi	50 mm/min; ASTM D638
	12.0 MPa	1740 psi	500 mm/min; ASTM D638
Elongation at Break	25 %	25 %	500 mm/min; ASTM D638
	100 %	100 %	50 mm/min; ASTM D638
Flexural Modulus	0.345 GPa	50.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 °C	189 °F	ASTM D1525
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D696

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

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