

NOVA Chemicals Sclair® 59A HDPE Injection Molding Resin

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

Material Notes:

Features: Homopolymer, high drop impact resistance and high stiffness. Applications: Juice, water containers, personal protective equipment, grain elevator buckets, designed for accumulator and reciprocating-screw machines. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-59A-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	25 hour	25 hour	F50, Condition A, ASTM D1693, 100% Igepal
Melt Flow	0.72 g/10 min @Load 2.16 kg, Temperature 190 °C	0.72 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
Elongation at Break	1000 %	1000 %	ASTM D638
Flexural Modulus	1.35 GPa	196 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 °C	266 °F	ASTM D1525

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

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