

NOVA Chemicals Sclair® IG454-A Compression Molded HDPE Resin

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

Material Notes:

IG454-A complies with the U.S. FDA specifications for olefin polymers and may thus be used in the United States as an article or component of an article intended for use in contact with food. IG454-A is subject to the specific limitation that it may contact food only at temperatures of 212°F and below. NOVA Chemicals' polyethylene resins are chemically and biologically inert. Features: Superior stiffness allows for part thinwalling and enhanced stacking strength, Lower viscosity for exceptional processability yielding shorter cycle times and energy savings, Exceptional solid state properties provide improved impact resistance and ESCR, Good organoleptic properties and natural color. Additives: Antioxidant. Applications: Shipping pails (both food and industrial), Storage bins and totes, Caps and closures, Crates

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-IG454-A-Compression-Molded-HDPE-Resin.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D 792
ESCR 100% Igepal®	<= 10 hour	<= 10 hour	Condition B; ASTM D 1693
Melt Flow	9.0 g/10 min @Load 2.16 kg, Temperature 190 °C	9.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D 2240
Tensile Strength at Break	22.0 MPa	3190 psi	50 mm/min test speed; ASTM D 638
Tensile Strength, Yield	28.5 MPa	4130 psi	50 mm/min test speed; ASTM D 638
Elongation at Break	1200 %	1200 %	50 mm/min test speed; ASTM D 638
Elongation at Yield	8.0 %	8.0 %	50 mm/min test speed; ASTM D 638
Flexural Modulus, 1% Secant	1230 MPa	178000 psi	ASTM D 790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	128 °C	262 °F	ASTM D 1525

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