

NOVA Chemicals Sclair® TD-7915-U Hexene MDPE Rotational Molding Resin (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Molded

Material Notes:

Excellent low temperature impact properties, Excellent ESCR, Wide process window, NSF listing for Stds. 14, 24, and 61 pending, Retention of impact at long cook times
Applications: IBCs, Toys, General purpose custom molding, Agricultural storage tanks, Marine parts
Additives: Processing antioxidants, UV stabilizers
Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-TD-7915-U-Hexene-MDPE-Rotational-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	ASTM D792
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	F ₅₀ ; Condition A, From compression molded specimens; ASTM D1693
ESCR 10% Igepal®	140 hour @Temperature 50.0 °C	140 hour @Temperature 122 °F	F ₅₀ ; Condition A, From compression molded specimens; ASTM D1693
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	17.3 MPa @Thickness 3.17 mm	2510 psi @Thickness 0.125 in	Type IV specimen, 2" per minute test speed, rotomolded samples; ASTM D638
Flexural Modulus	0.780 GPa	113 ksi	1% Strain Value from rotomolded samples; ASTM D790
Impact Test	67.8 J @Thickness 3.17 mm, Temperature -40.0 °C	50.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	rotomolded; ARM Method
	217 J @Thickness 6.35 mm, Temperature -40.0 °C	160 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	rotomolded; ARM Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	47.0 °C	117 °F	ASTM D648
Deflection Temperature at 1.8 MPa	37.3 °C	99.1 °F	ASTM D648

(264 psi) Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	204 - 315 °C	399 - 599 °F	Varies with the mold shape and construction. Oven will also affect process time.

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