

NOVA Chemicals Sclair® 8107 UV8D Butene LLDPE Rotational Molding Resin

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

Material Notes:

Excellent ESCR, Excellent low temperature impact properties, Excellent low shrinkage and warpage properties, Very good processability, UL 94-HB listed Applications: Food and laundry materials handling, IBCs, Chemical containers, Parts requiring flat surfaces or low shrinkage characteristics, Intricate custom 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-8107-UV8D-Butene-LLDPE-Rotational-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 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®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	F ₅₀ ; Condition A, From compression molded specimens; ASTM D1693
Melt Flow	4.8 g/10 min @Load 2.16 kg, Temperature 190 °C	4.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	10.5 MPa @Thickness 3.17 mm	1520 psi @Thickness 0.125 in	Type IV specimen, 2" per minute test speed, rotomolded samples; ASTM D638
Flexural Modulus	0.520 GPa	75.4 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
	203 J @Thickness 6.35 mm, Temperature -40.0 °C	150 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)	42.0 °C	108 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	35.0 °C	95.0 °F	ASTM D648

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

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