

NOVAPOL® TR-0535-UI(UIG) NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information				
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Material Status	Commercial: Active			
Availability	North America			
Additive	 Antioxidant 	UV Stabilizer		
Features	AntioxidantFood Contact AcceptableGeneral Purpose	 Good Stiffness High ESCR (Stress Crack Resist.) Low Temperature Impact Resistance 	Medium Density UV Stabilized	
Uses	Agricultural TanksGeneral Purpose	 Marine Applications Septic Tanks	• Toys	
Agency Ratings	 FDA 21 CFR 176.170(c), Table 2, Cond. D FDA 21 CFR 176.170(c), Table 2, Cond. E FDA 21 CFR 176.170(c), Table 2, Cond. F 	 FDA 21 CFR 176.170(c), Table 2, Cond. G NSF STD-51 FDA 21 CFR 177.1520(c) 3.2a NSF STD-61 		
Forms	• Pellets			
Processing Method	Compression Molding	Rotational Molding		

ASTM & IS	SO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			
122°F, 10% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693B
122°F, 100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 0.0748 in, Compression Molded	2540	psi	
Tensile Elongation ²			ASTM D638
Yield, 0.0748 in, Compression Molded	12	%	
Flexural Modulus - 1% Secant (Compression Molded)	98600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact - Rotational Molded			ARM
-40°F, 0.13 in	49.4	ft·lb	
-40°F, 0.25 in	160	ft·lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	136	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	108	°F	
Peak Melting Temperature	257	°F	ASTM E794



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Notes

¹ Typical properties: these are not to be construed as specifications.



² Type IV, 2.0 in/min