



NOVAPOL® TR-0735-U(UG)

NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antioxidant	• UV Stabilizer	
Features	• Antioxidant • Food Contact Acceptable	• Good Impact Resistance • Good Processability	• Low Density • UV Stabilized
Uses	• Engineering Parts • Household Goods	• Outdoor Applications • Toys	
Agency Ratings	• FDA 21 CFR 176.170(c), Table 2, Cond. C • 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 • FDA 21 CFR 176.170(c), Table 2, Cond. H • FDA 21 CFR 177.1520(c) 3.2a • NSF STD-24	• NSF STD-51 • NSF STD-61
Forms	• Pellets		
Processing Method	• Compression Molding	• Rotational Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	7.0	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	2480	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	50.2	ft·lb	
-40°F, 0.25 in	150	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
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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Notes

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

² Type IV, 2.0 in/min
