

NOVAPOL® TR-0338-UI(UIG)

Medium Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL® TR-0338-UI(UIG) is a Medium Density Polyethylene material. It is available in North America for rotational molding.

Important attributes of NOVAPOL® TR-0338-UI(UIG) are:

- Antioxidant
- Food Contact Acceptable
- Good Processability
- Good Stiffness
- High ESCR (Stress Crack Resistant)
- Typical applications include:
 - Food Contact Applications
 - Plumbing/Piping/Potable Water Tanks
 - Containers

General Information	
UL YellowCard	E146584-223446
Additive	Antioxidant
	UV Stabilizer
Features	Antioxidant
	Food Contact Acceptable
	General Purpose
	Good Processability
	Good Stiffness
	High ESCR (Stress Crack Resist.)
	Low Density
	Low Temperature Impact Resistance
Uses	Agricultural Tanks
	Containers
	General Purpose
	Septic Tanks
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
	FDA 21 CFR 177.1520(c) 3.2a
	NSF 14
	NSF 24
	NSF 61

Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
50°C, 100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693A
50°C, 100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 1.90 mm, Compression Molded)	19.4	MPa	ASTM D638
Tensile Elongation ² (Yield, 1.90 mm, Compression Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	760	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact - Rotational Molded			ARM
-40°C, 3.18 mm	70.0	J	
-40°C, 6.35 mm	220	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	60.0	°C	
1.8 MPa, Unannealed	43.0	°C	
Peak Melting Temperature	125	°C	ASTM E794
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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