

# Rotational Molding

## Product Summary Sheet

# polyethylene

Grade	End Use Application	Melt Index <sup>(2)</sup>	Density	ESCR <sup>(3)</sup> Condition A		Flexural Modulus <sup>(4)</sup>		Tensile Strength <sup>(5)</sup>	
		ASTM <sup>(1)</sup> D 792	ASTM D 1238	F <sub>50</sub> (hours) ASTM D 1693		ASTM D 790		ASTM D 638	
		g/10 min	g/cm <sup>3</sup>	100% Igepal	10% Igepal	MPa	kpsi	MPa	kpsi
NOVAPOL <sup>®</sup> TR-0242-U/UG <sup>(7)</sup>	Large parts, Agricultural storage tanks	1.8	0.942	>1000	—	970	140.7	22.3	3.2
NOVAPOL TR-0338-U/UG <sup>(7)</sup>	General purpose custom molding, Chemical containers, IBCs, Fish boxes, Septic tanks, Agricultural storage tanks. Formulated for harsher/longer processing conditions.	3.5	0.938	>1000	110	860	124.7	20.6	3.0
NOVAPOL TR-0535-U/UG <sup>(7)</sup>	IBC's, Toys, General purpose custom molding, Agricultural storage tanks, Marine parts	5.0	0.935	>1000	140	780	113.1	17.3	2.5
NOVAPOL TR-0735-U/UG <sup>(7)</sup>	Toys, Complex custom parts, Home and garden items, Mailboxes	7.0	0.935	>1000	220	780	113.1	17.3	2.5

(1) Properties designated have been determined in accordance with the current issues of the specified testing methods. Methods of the American Society for Testing and Materials (ASTM) are used whenever applicable.

(2) Condition 190/2.16.

(3) Condition A, 50°C, F<sub>50</sub> values. From compression molded specimens.

(4) 1% Strain Value. From rotomolded samples.

(5) Type IV specimen, 2" (50.8 mm) per minute test speed, 0.125" (3.1 mm) thickness from rotomolded samples.

(6) -40°C on rotomolded parts.

(7) NSF listed for standards 14, 24 and 61.



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Grade	Heat Distortion Temp. °C ASTM D 648		ARM Low Temp. Impact <sup>®</sup> ARM Method	
	66 psi (4.64 kg/cm <sup>2</sup> )	264 psi (18.56 kg/cm <sup>2</sup> )	0.125" 3.17 mm (ft-lbs)	0.250" 6.35 mm (ft-lbs)
NOVAPOL TR-0242-U/UG	50	39	60	180
NOVAPOL TR-0338-UI/UIG	49	38	50	160
NOVAPOL TR-0535-UI/UIG	47	37.3	56	163
NOVAPOL TR-0735-U/UG	47	37.3	50	150

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- (2) Condition 190/2.16.
- (3) Condition A, 50°C, F<sub>50</sub> values. From compression molded specimens.
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