

Rotational Molding Product Summary Sheet

Grade	Type	End-Use Application	Density	Melt Index ⁽²⁾	ESCR ⁽³⁾	Flexural Modulus ⁽⁴⁾		Tensile Strength ⁽⁵⁾		Heat Distortion		ARM Low Temp.
			ASTM ⁽¹⁾ D 792	ASTM D 1238	F ₅₀ (hours) ASTM D 1693	ASTM D 790		ASTM D 638		Temp. (°C) D 648		Impact ⁽⁶⁾ ARM Method
			g/cm ³	g/10 min	100% Igepal	MPa	kpsi	MPa	kpsi	66 psi (4.64 kg/cm ²)	264 psi (18.56 kg/cm ²)	0.250" 6.35 mm (ft-lb)
Octene Comonomer												
SURPASS RMs341-U/UG ⁽⁷⁾	sHDPE	OEM custom and proprietary components, recreational and leisure equipment, containers, septic tanks and fish boxes, large tanks	0.941	3.5	>1000	827	120	20.2	2.9	62	43	170
SURPASS RMs539-U/UG ⁽⁷⁾	sMDPE	OEM custom and proprietary components, recreational and leisure equipment, containers, septic tanks and fish boxes, marine products	0.939	5.2	>1000	780	113.1	20.0	2.9	60	42	170
Hexene Comonomer												
NOVAPOL [®] TR-0338-UI/UG ⁽⁸⁾	MDPE	General purpose custom molding, chemical containers, IBCs, fish boxes, septic tanks, agricultural storage tanks	0.938	3.5	>1000	760	110.2	19.4	2.8	60	43	160
NOVAPOL TR-0535-UI/UG ⁽⁸⁾	MDPE	IBC's, toys, general purpose custom molding, agricultural storage tanks, marine parts	0.935	5.0	>1000	680	98.6	17.5	2.5	58	42	163
NOVAPOL TR-0735-U/UG ⁽⁸⁾	MDPE	Toys, complex custom parts, home and garden items, mailboxes	0.935	7.0	>1000	680	98.6	17.1	2.5	58	42	150

(1) Properties designated have been determined using methods which are in accordance with or substantially in accordance with the specified testing standards.

(2) Condition 190°C/2.16 kg.

(3) Condition A for densities less than 0.939 g/cm³. Condition B for densities 0.939 g/cm³ and greater. From compression molded specimens.

(4) 1% Strain Value. From compression molded samples.

(5) Type IV specimen, 2" (50.8 mm) per minute test speed, 0.075" (1.9 mm) thickness from compression molded samples.

(6) -40°C on rotomolded parts.

(7) NSF listed for standards 24, 51, and 61.

(8) NSF listed for standards 24 and 61.

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