

ENTE^CTEC

ROTATIONAL MOLDING MATERIALS



10/12/2018 The information presented in this document was assembled from literature of the resin product producer(s). The information is believed to be accurate however Entec Polymers ("Entec") makes no representations as to its accuracy and assumes no obligation or liability for the information, including without limitation its content, any advice given, or the results obtained. ENTEC DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE. The customer shall use its own independent skill and expertise in the evaluation of the resin, product to determine suitability for a particular application and accepts the results at its sole risk.

Dow Rotational Molding Product Specifications

Grade	Applications	Melt Index	Unit	Range	Density	Melt Point	Flex Mod	Yield Strength	ESCR	HDT @ 66psi	ARM Impact .125"	ARM Impact .250"
DPDA-3220 NT 7 HDPE	General Purpose Custom Molding, Ag & Chemical Storage Tanks, Consumer/Recreational Goods, Int. Bulk Containers, Marine Parts	2	dg/min	1.8-2.2	0.944	261 F	107,000	3100 psi	> 1000 h	132 F	NA	200 ft-lb
DPDA-3135 NT 7 MDPE	General Purpose Custom Molding, Ag & Chemical Storage Tanks, Consumer/Recreational Goods, Toys, Int. Bulk Containers, Marine Parts	3.5	dg/min	2.7-4.3	0.938	260 F	104,000	2930 psi	> 1000 h	133 F	60 ft-lb	186 ft-lb
DPDA-3152 NT 7 MDPE	General Purpose Custom Molding, Consumer/Recreational Goods, Toys, Int. Bulk Containers, Industrial Packaging, Water Tanks, Marine Parts	5.2	dg/min	4.6-5.8	0.935	257 F	95,000	2720 psi	> 1000 h	125 F	59 ft-lb	188 ft-lb
DPDA-3162 NT 7 MDPE	General Purpose Custom Molding, Consumer Goods, Toys, Int. Bulk Containers, Water Tanks, Marine Parts	6.2	dg/min	NA	0.94	259 F	105,000	2,600	> 560 h	133 F	NA	185 ft-lb
DPDA-3170 NT 7 MDPE	General Purpose Custom Molding, Consumer/Recreational Goods, Toys, Water Tanks, Marine Parts	7	dg/min	6.2-7.8	0.935	258 F	87,500	2670 psi	> 1000 h	123 F	53 ft-lb	168 ft-lb

Nova SURPASS® Rotational Molding Product Specifications

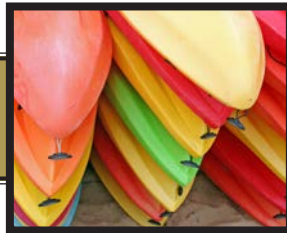
Grade	Applications	Melt Index	Unit	Range	Density	Melt Point	Flex Mod	Yield Strength	ESCR	HDT @ 66psi	ARM Impact .125"	ARM Impact .250"
RM245U HDPE	Ag Tanks up to 20,000 gallons, Parts Requiring Exceptional Stiffness & Toughness, High ESCR & High UV Resistance	1.70	grams/10 minutes	1.45-1.95	0.947	261 F	149,000	3340 psi	> 1000 h	145 F	55.3 ft-lb	181 ft-lb
RM341U HDPE	Custom & Proprietary Components, Recreational & Leisure Equipment, Containers, Large Tanks, Marine Products	3.50	grams/10 minutes	2.85-4.15	0.941	259 F	119,000	2900 psi	> 1000 h	144 F	70 ft-lb	170 ft-lb
RM539U LLDPE	Custom & Proprietary Components, Recreational & Leisure Equipment, Containers, Large Tanks, Marine Products	5.20	grams/10 minutes	4.20-6.20	0.939	257 F	113,000	2900 psi	> 1000 h	140 F	40 ft-lb	170 ft-lb

Nova NOVAPOL® Rotational Molding Product Specifications

Grade	Applications	Melt Index	Unit	Range	Density	Melt Point	Flex Mod	Yield Strength	ESCR	HDT @ 66psi	ARM Impact .125"	ARM Impact .250"
TR0338U LLDPE	General Purpose Custom Molding, Ag & Chemical Storage Tanks, Consumer/Recreational Goods, Toys, Int. Bulk Containers, Marine Parts	3.50	grams/10 minutes	2.92-4.19	0.938	257 F	110,200	2,800	> 1000 h	140 F	52 ft-lb	162 ft-lb
TR0535UI LLDPE	General Purpose Custom Molding, Consumer/Recreational Goods, Toys, Int. Bulk Containers, Industrial Packaging, Water Tanks, Marine Parts	5.00	grams/10 minutes	4.15-6.04	0.935	257 F	98,600	2,540	> 1000 h	136 F	49.4 ft-lb	160 ft-lb
TR0735U LLDPE	General Purpose Custom Molding, Consumer/Recreational Goods, Toys, Water Tanks, Marine Parts	7.00	grams/10 minutes	5.80-8.20	0.935	257 F	98,600	2,480	> 1000 h	136 F	50.2	150 ft-lb

High Performance Engineered Rotational Molding Product Specifications

Grade	Applications	Melt Index	Unit	N/A	Density	Melt Point	Flex Mod	Yield Strength	N/A	HDT @ 66psi	ARM Impact .125"	N/A
Aquatuf HMP-337 HDPE	Products Requiring Exceptional Stiffness, Toughness & Impact Resistance, Recreational & Leisure Equipment, UV 15 Package	4	dg/min		0.949	275 F	170,000	3,300		140 F	60 ft-lb	
Aquatuf HMP-334 HDPE	Products Requiring Exceptional Stiffness, Toughness & Impact Resistance, Recreational & Leisure Equipment	4	dg/min		0.947	272.3 F	160,000	3,200		143.6 F	60 ft-lb	
Aquatuf HMP-327 HDPE	Products Requiring Exceptional Stiffness, Toughness & Impact Resistance, Recreational & Leisure Equipment	6	dg/min		0.947		165,000	3,350			55 ft-lb	
HMP-321C1 HDPE	Products Requiring Exceptional Stiffness, Toughness & Impact Resistance, Recreational & Leisure Equipment	4	dg/min		0.947		170,000	3,200		143 F	64 ft-lb	
HMP-305M HDPE	Products Requiring Exceptional Stiffness, Toughness & Impact Resistance, Recreational & Leisure Equipment	5	dg/min		0.945		150,000	3,000			56 ft-lb	



General Color Compounded Rotational Molding Product Specifications

Grade	Applications	Melt Index	Unit	Range	Density	Melt Point	Flex Mod	Yield Strength	ESCR	HDT @ 66psi	ARM Impact .125"	ARM Impact .250"
HMP-301 HDPE	General Purpose Custom Molding, Ag & Chemical Storage Tanks, Consumer/Recreational Goods, Int. Bulk Containers, Marine Parts	2	dg/min	1.8-2.2	0.944	261 F	107,000	3100 psi	> 1000 h	132 F	NA	200 ft-lb
HMP-304 MDPE	General Purpose Custom Molding, Ag & Chemical Storage Tanks, Consumer/Recreational Goods, Toys, Int. Bulk Containers, Marine Parts	3.5	dg/min	2.7-4.3	0.938	260 F	104,000	2930 psi	> 1000 h	133 F	60 ft-lb	186 ft-lb
HMP-305 MDPE	General Purpose Custom Molding, Consumer/Recreational Goods, Toys, Int. Bulk Containers, Industrial Packaging, Water Tanks, Marine Parts	5.2	dg/min	4.6-5.8	0.935	257 F	95,000	2720 psi	> 1000 h	125 F	59 ft-lb	188 ft-lb
HMP-307 MDPE	General Purpose Custom Molding, Consumer/Recreational Goods, Toys, Water Tanks, Marine Parts	7	dg/min	6.2-7.8	0.935	258 F	87,500	2670 psi	> 1000 h	123 F	53 ft-lb	168 ft-lb

Specialty Rotational Molding Product Specifications

Grade	Applications	Melt Index	Unit	Range	Density	Melt Point	Flex Mod	Yield Strength	ESCR	HDT @ 66psi	ARM Impact .125"	ARM Impact .250"
Hylon N7000G Nylon 12	Products That Need High Heat Stability, Hydrolysis Resistance, Chemical Resistance, Dimensional Stability, Physical Properties Retention After Prolonged Outdoor Exposure & High Temperatures	1.02				352 F	60,000	6,400		244 F	NA	
Superlink 110 Crosslink	Products That Need To Have Very High Stiffness Along With Good Impact Strength, Fuel Containment				0.942		110,000	2900 psi	> 1000 h		70 ft-lb	170 ft-lb
Superlink 120 Crosslink	Products That Need To Have Very High Stiffness Along With Good Impact Strength, Fuel Containment				0.942		110,000	2900 psi	> 1000 h		70 ft-lb	170 ft-lb
Superlink 114 Crosslink	Products That Need To Have Very High Stiffness Along With Good Impact Strength, Fuel Containment				0.945		119,000	2850 psi	> 1000 h		70 ft-lb	200 ft-lb
PPROTO/IM Polypropylene	Products That Need High Heat Stability, Chemical Resistance, Dimensional Stability	20			0.900		175,000	3500 psi		221 F		
Tyflex 50 Soft Touch	Products That Need To Have Flexibility and/or A Soft Feel To The Touch	11	g/10min		0.920						> 90 ft-lb	
HMP-372A-XXXX V2 PE	Products Needing A V2 Flame Rated Material	5	g/10min		0.937		129,000	2,500 psi				

