



# Gravi-Tech™ Compounds

## Product Selection Guide North America

Product Description	Units	Speed/Size	GRV-NY-027-SS-BLK-F	GRV-NY-050-CU Natural	GRV-TP-080-W Natural	GRV-NY-085-W Natural	GRV-NY-085-W-NAT	GRV-NP-110-W-NAT	GRV-NY-112-W-NAT
<b>Base Polymer</b>			PA6	PA6	TPE	PA6	PA6	PA12	PA6
<b>Specific Gravity (ASTM D792)</b>			2.7	5.0	8.0	8.5	8.5	11	11.2
<b>Mold Shrink, Linear-Flow (ASTM D955)</b>	in/in		0.008 - 0.011	0.007-0.011	0.018-0.022	0.005-0.011	0.005 - 0.011	0.004 - 0.006	0.003 - 0.0065
<b>Tensile Modulus (ASTM D638)</b>	psi	0.2 in/min	800,000	1.80 E+06		1600000	1.60E+06	1200000	3.00E+06
<b>Tensile Strength at Yield (ASTM D638)</b>	psi		9000	8500	150	9000	9000	3950	9000
<b>Tensile Elongation at Break (ASTM D638)</b>	%		3	1	500	1	1	1.8	0.5
<b>Flexural Modulus (ASTM D790)</b>	psi	0.05 in/min	650000	1600000		1400000	1.40E+06	720000	2.30E+06
<b>Flexural Strength (ASTM D790)</b>	psi	0.05 in/min	14900	1300		15500	15500	7000	15000
<b>Notched Izod Impact (ASTM D256)</b>	ft-lb/in	1/8"	1	1		1.2	1.2	2.1	1.5
<b>Unnotched Izod</b>		1/8"	8			5.5	5.5	7	4.5
<b>Rockwell Hardness (R-Scale, 73.4 F)</b>			113						
<b>DTUL @ 66 psi - Unannealed (ASTM D648)</b>	deg F		370 F			378	378 F	280 F	370 F
<b>DTUL @ 264 psi - Unannealed (ASTM D648)</b>	deg F		190 F			275	275 F	190 F	273 F
<b>Thermal Conductivity (ASTM C177)</b>		W/m-K						3.5	
<b>Vicat Softening Temperature (ASTM D1525)</b>	deg F		414 F						
<b>Drying Temperature</b>	deg F		175	160-180	170	160-180	175	175	175
<b>Drying Time</b>	hr		4	4	2	4	4	4	4
<b>Processing (Melt) Temp</b>	deg F		520-560	520-560	325-400	520-550	520-550	500-550	500-550
<b>Mold Temperature</b>	deg F		180-275	180-225	60-100	180-300	180-300	180-300	180-300
<b>SAP Code</b>			EM10012413DR	EM10011141DR	EM10015612DR	EM10014336DR	EM10014336DR	EM10005705DR	EM10013239DR

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