



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

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