

## Meldin® 7211

Meldin® 7211 is $15 \%$ by weight graphite and $10 \%$ by weight PTFE fillers. It has the lowest coefficient of friction of all the Meldin® 7000 grades. However, above $300^{\circ} \mathrm{F}$, the typical material used is Meldin® ${ }^{\circledR} 7021$, which has a very similar coefficient of friction to 7211 a t temperatures above $300^{\circ} \mathrm{F}$, and the wear factor of 7021 is lower than 7211 at temperatures above ${ }^{\circ} \mathrm{F}$

| Property | Test Method | Units | Meldin® 7211 |
| :---: | :---: | :---: | :---: |
| Mechanical |  |  |  |
| Tensile Strength | ASTM D638 | psi | 7,500 |
| Elongation | ASTM D638 | \% | 4.0 |
| Flexural Strength | ASTM D790 | psi | 11,800 |
| Flexural Modulus | ASTM D790 | psi | 493,000 |
| Compressive Stress @ 1\% Strain | ASTM D695 | psi | 3,500 |
| Compressive Stress @ 10\% Strain | ASTM D695 | psi | 14,950 |
| Compressive Modulus | ASTM D695 | psi | 348,000 |
| Coefficient of Thermal Expansion $73^{\circ} \mathrm{F}$ to $500^{\circ} \mathrm{F}$ | ASTM E831 | in/in/ ${ }^{\circ} \mathrm{F}$ | $2.4 \times 10^{-5}$ |
| Thermal Conductivity | ASTM F433 | BTU-in/hr-ft ${ }^{2}{ }^{\circ} \mathrm{F}$ | 5.2 |
| Electrical |  |  |  |
| Dielectric Strength, .08" | ASTM D149 | V/mil | - |
| $\begin{aligned} & \hline \text { Dielectric Constant } \\ & 100 \mathrm{~Hz} \\ & 10 \mathrm{KHz} \\ & 1 \mathrm{MHz} \\ & \hline \end{aligned}$ | ASTM D150 <br> ASTM D150 <br> ASTM D150 |  | - |
| Surface Resistivity | ASTM D257 | ohm/square | - |
| Other |  |  |  |
| Specific Gravity | ASTM D792 |  | 1.53 |
| Hardness, Rockwell E | ASTM D785 |  | 1-15 |
| Water Absorption, 24 hrs | ASTM D570 | \% | 0.23 |
| Water Absorption, 48 hrs | ASTM D570 | \% | 0.46 |
| Deformation Under Load, 2000 psi | ASTM D621 | \% | - |
| Limiting Oxygen Index | ASTM D2863 |  | - |
| Mechanical Properties @ $500{ }^{\circ} \mathrm{F}$ |  |  |  |
| Tensile Strength | ASTM D638 | psi | 4,300 |
| Elongation | ASTM D638 | \% | 2.8 |
| Flexural Strength | ASTM D790 | psi | 6,000 |
| Flexural Modulus | ASTM D790 | psi | 3,000,000 |
| Specification Qualification |  |  |  |
| ASTM D-6456-99 |  | Satisfies | Type II Class 3P |
| SAE AMS 3644E |  | Satisfies | Class 4 Form P |
| MIL-R-46198 |  | Satisfies | Type II Class 3P |

Values in this table are for compression molded material.
NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. All values at $73^{\circ} \mathrm{F}\left(23^{\circ} \mathrm{C}\right)$ unless otherwise noted.

