

**Physical Properties of Mil-I-24768 Composites**

| <b><u>Supplement</u></b> | <b><u>Military</u></b>    | <b><u>NEMA</u></b>        |                             |                                                                  |
|--------------------------|---------------------------|---------------------------|-----------------------------|------------------------------------------------------------------|
| <b><u>No.</u></b>        | <b><u>Designation</u></b> | <b><u>Designation</u></b> | <b><u>Specific Heat</u></b> | <b><u>Thermal Conductivity</u></b>                               |
| /1                       | GME                       | G9                        | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /2                       | GEE                       | G10                       | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /3                       | GEB                       | G11                       | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /4                       | GPO N-1                   | GPO-1                     | (n/a) not available         | (n/a)                                                            |
| /5                       | GPO N-2                   | GPO-2                     | (n/a)                       | (n/a)                                                            |
| /6                       | GPO N-3                   | GPO-3                     | (n/a)                       | (n/a)                                                            |
| /7                       | GTE                       | GT                        | (n/a)                       | (n/a)                                                            |
| /8                       | GMG                       | G5                        | 0.26 calories/gram/°C       | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /9                       | NPG                       | N1                        | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /10                      | PBE                       | XXX                       | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /11                      | PBG                       | XX                        | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /12                      | PBM                       | X                         | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /13                      | FBE                       | LE                        | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /14                      | FBG                       | CE                        | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /15                      | FBI                       | L                         | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /16                      | FBM                       | C                         | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /17                      | GSG                       | G7                        | 0.25 calories/gram/°C       | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /18                      | GPG                       | G3                        | 0.30 calories/gram/°C       | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /19                      | PBM-P                     | XP                        | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /20                      | PBM-PC                    | XPC                       | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /21                      | PBG-P                     | XXP                       | 0.33-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /22                      | PBE-P                     | XXXP                      | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /23                      | PBE-PC                    | XXXPC                     | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /24                      | PBM-PF                    | FR-1                      | 0.35-0.40 calories/gram/°C  | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /25                      | PBE-PCF                   | FR-2                      | 0.30 calories/gram/°C       | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /26                      | PEE                       | FR-3                      | 0.30 calories/gram/°C       | 7.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /27                      | GEE-F                     | FR-4                      | 0.26 calories/gram/°C       | 1.2 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /28                      | GEB-F                     | FR-5                      | 0.25 calories/gram/°C       | 12 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm)  |
| /29                      | CEM-1                     | CEM-1                     | (n/a)                       | (n/a)                                                            |
| /30                      | CEM-3                     | CEM-3                     | 0.25 calories/gram/°C       | 1.0 x 10 <sup>-4</sup> calories/second/cm <sup>2</sup> / (°C/cm) |
| /31                      | GPO-N-1P                  | GPO-1P                    | (n/a)                       | (n/a)                                                            |
| /32                      | GPO-N-2P                  | GPO-2P                    | (n/a)                       | (n/a)                                                            |
| /33                      | GPO-N-3P                  | GPO-3P                    | (n/a)                       | (n/a)                                                            |