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**Semilon PKGF30 Typical Properties**  
**PEEK 30% Glass Filled**

| Category   | Property   | Test Method | Units                          | Values   |
|------------|--|-------------|--------------------------------|----------|
| Mechanical | Specific Gravity, 73°F                                   | D792        | g/cm <sup>3</sup>              | 1.52     |
|            | Tensile Strength, 73°F Yield                             | D638        | psi                            | 33000    |
|            | Tensile Modulus of Elasticity, 73°F                      | D638        | ksi                            | 1100     |
|            | Tensile Elongation (at break), 73°F                      | D638        | %                              | >5       |
|            | Flexural Strength, 73°F                                  | D790        | psi                            | 35000    |
|            | Flexural Modulus of Elasticity, 73°F                     | D790        | ksi                            | 1700     |
|            | Shore D  |             | D                              | 90       |
|            | Coefficient of Friction (Dry vs. Steel) Dynamic          | QTM 55007   | -                              | -        |
| Thermal    | Coefficient of Linear Thermal Expansion (-40°F to 300°F) | D696        | in./in./°F                     | 1.30E-05 |
|            | Heat Deflection Temperature 264 psi                      | D648        | °F                             | 594      |
|            | Tg-Glass Transition                                      | D3418       | °F                             | 289      |
|            | Melting Point Peak                                       | D3418       | °F                             | 644      |
|            | Continuous Service Temperature in Air (Max.)             | -           | °F                             | 480      |
|            | Thermal Conductivity                                     | F433        | BTU in./hr.ft. <sup>2</sup> °F | 2.98     |
|            | Flammability @ 3.1 (1/8")                                | UL 94       | -                              | V-0      |
| Electrical | Dielectric Strength, Short Term                          | D149        | Volts/mil                      | 445      |
| Chemical   | Water Absorption Immersion, Saturation                   | D570        | % by wt.                       | 0.3      |
|            | Water Absorption (24 Hours @ 23°C/73°F)                  | D570        | %                              | 0.06     |

\*Typical values only. Actual properties of individual batches will vary within specification limits.