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Semilon PET Typical Properties

| Category | Property | Test Method | Units | Values |
|------------|--|-------------|-----------------------------------|----------|
| Mechanical | Specific Gravity, 73°F | D792 | g/cm ³ | 1.4 |
| | Tensile Strength, 73°F Yield | D638 | psi | 11500 |
| | Tensile Modulus of Elasticity, 73°F | D638 | ksi | 450 |
| | Tensile Elongation (at break), 73°F | D638 | % | 50 |
| | Flexural Strength, 73°F | D790 | psi | 18000 |
| | Flexural Modulus of Elasticity, 73°F | D790 | ksi | 490 |
| | Shore D | | D | 85 |
| | Coefficient of Friction (Dry vs. Steel) Dynamic | QTM 55007 | - | 0.2 |
| Thermal | Coefficient of Linear Thermal Expansion (-40°F to 300°F) | D696 | in./in./°F | 3.30E-05 |
| | Heat Deflection Temperature 264 psi | D648 | °F | 240 |
| | Tg-Glass Transition | D3418 | °F | - |
| | Melting Point Peak | D3418 | °F | 491 |
| | Continuous Service Temperature in Air (Max.) | - | °F | 210 |
| | Thermal Conductivity | F433 | BTU in./hr.ft. ² °F | 2 |
| | Flammability @ 3.1 (1/8") | UL 94 | - | HB |
| Electrical | Dielectric Strength, Short Term | D149 | Volts/mil | 385 |
| Chemical | Water Absorption Immersion, Saturation | D570 | % by wt. | 0.9 |
| | Water Absorption (24 Hours @ 23°C/73°F) | D570 | % | 0.07 |

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