

**DIC-PPS FZL-4033**

(PPS+PTFE)-GF30

DIC Trading (USA) Inc.

| Processing/Physical Characteristics  | Value           | Unit              | Test Standard |
|--------------------------------------|-----------------|-------------------|---------------|
| <b>ASTM Data</b>                     |                 |                   |               |
| Mold Shrinkage, MD                   | <b>0.0025</b>   | mm/mm             | ASTM D 955    |
| Mold Shrinkage, TD                   | <b>0.012</b>    | mm/mm             | ASTM D 955    |
| <b>Mechanical properties</b>         |                 |                   |               |
| <b>ASTM Data</b>                     |                 |                   |               |
| Tensile Modulus                      | <b>10000</b>    | MPa               | ASTM D 638    |
| Tensile Strength                     | <b>150</b>      | MPa               | ASTM D 638    |
| Elongation at Break                  | <b>1.6</b>      | %                 | ASTM D 638    |
| Compressive Strength                 | <b>180</b>      | MPa               | ASTM D 695    |
| Flexural Modulus                     | <b>9000</b>     | MPa               | ASTM D 790    |
| Flexural Strength                    | <b>230</b>      | MPa               | ASTM D 790    |
| Rockwell Hardness                    | <b>R 118</b>    | -                 | ASTM D 785    |
| Izod Impact notched, 1/8 in          | <b>75</b>       | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in        | <b>400</b>      | J/m               | ASTM D 256    |
| <b>Thermal properties</b>            |                 |                   |               |
| <b>ASTM Data</b>                     |                 |                   |               |
| UL 94 Flame rating                   | <b>V-0</b>      | -                 | UL 94         |
| Thickness tested                     | <b>0.8</b>      | mm                | -             |
| Coefficient of Thermal Expansion, MD | <b>23</b>       | E-6/K             | ASTM D 696    |
| DTUL @ 264 psi                       | <b>265</b>      | °C                | ASTM D 648    |
| <b>Electrical properties</b>         |                 |                   |               |
| <b>ASTM Data</b>                     |                 |                   |               |
| Dielectric Strength, Short Time      | <b>16</b>       | kV/mm             | ASTM D 149    |
| Dissipation Factor, 1 MHz            | <b>0.002</b>    | -                 | ASTM D 150    |
| Dielectric Constant, 1 MHz           | <b>4</b>        | -                 | ASTM D 150    |
| Volume Resistivity                   | <b>&gt;1E15</b> | Ohm*cm            | ASTM D 257    |
| <b>Other properties</b>              |                 |                   |               |
| Water Absorption, 24hr               | <b>0.02</b>     | %                 | ASTM D 570    |
| Density                              | <b>1680</b>     | kg/m <sup>3</sup> | ASTM D 792    |

**Characteristics****Delivery form**

Black, Natural Color

**Additives**

Lubricants

**Features**

Tribologic Grade

**Regional Availability**

North America, Europe, Asia Pacific