

**PPS TS301**

PPS-GF30

Toyobo Co., Ltd.

| <b>Processing/Physical Characteristics</b> | <b>Value</b>  | <b>Unit</b>       | <b>Test Standard</b> |
|--|---------------|-------------------|----------------------|
| <b>ASTM Data</b>                           |               |                   |                      |
| Mold Shrinkage, MD                         | <b>0.003</b>  | mm/mm             | ASTM D 955           |
| Mold Shrinkage, TD                         | <b>0.0095</b> | mm/mm             | ASTM D 955           |
| <b>Mechanical properties</b>               |               |                   |                      |
| <b>ASTM Data</b>                           |               |                   |                      |
| Tensile Modulus                            | <b>10790</b>  | MPa               | ASTM D 638           |
| Tensile Strength                           | <b>157</b>    | MPa               | ASTM D 638           |
| Flexural Modulus                           | <b>9810</b>   | MPa               | ASTM D 790           |
| Flexural Strength                          | <b>206</b>    | MPa               | ASTM D 790           |
| Rockwell Hardness                          | <b>R 120</b>  | -                 | ASTM D 785           |
| Izod Impact notched, 1/8 in                | <b>84.4</b>   | J/m               | ASTM D 256           |
| <b>Thermal properties</b>                  |               |                   |                      |
| <b>ASTM Data</b>                           |               |                   |                      |
| UL 94 Flame rating                         | <b>V-0</b>    | -                 | UL 94                |
| Coefficient of Thermal Expansion, MD       | <b>9</b>      | E-6/K             | ASTM D 696           |
| Coefficient of Thermal Expansion, TD       | <b>69</b>     | E-6/K             | ASTM D 696           |
| DTUL @ 264 psi                             | <b>260</b>    | °C                | ASTM D 648           |
| <b>Electrical properties</b>               |               |                   |                      |
| <b>ISO Data</b>                            |               |                   |                      |
| Comparative tracking index                 | <b>155</b>    | -                 | IEC 60112            |
| <b>ASTM Data</b>                           |               |                   |                      |
| Dielectric Strength, Short Time            | <b>13</b>     | kV/mm             | ASTM D 149           |
| Dissipation Factor, 1 MHz                  | <b>0.0013</b> | -                 | ASTM D 150           |
| Dielectric Constant, 1 MHz                 | <b>3.9</b>    | -                 | ASTM D 150           |
| Volume Resistivity                         | <b>1E16</b>   | Ohm*cm            | ASTM D 257           |
| Arc Resistance                             | <b>97</b>     | s                 | ASTM D 495           |
| <b>Other properties</b>                    |               |                   |                      |
| Water Absorption, 24hr                     | <b>0.03</b>   | %                 | ASTM D 570           |
| Density                                    | <b>1550</b>   | kg/m <sup>3</sup> | ASTM D 792           |

**Characteristics****Special Characteristics**

Flame retardant, High impact or impact modified

**Regional Availability**

North America, Europe, Asia Pacific