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|--------------------------------------------|--------------------------------|-------------------|----------------------|
| <b>PBT-5130</b>                            |                                |                   |                      |
| <b>PBT-GF30</b>                            |                                |                   | ChangChun Group      |
| <b>Processing/Physical Characteristics</b> | <b>Value</b>                   | <b>Unit</b>       | <b>Test Standard</b> |
| <b>ASTM Data</b>                           |                                |                   |                      |
| Mold Shrinkage, MD                         | 0.0025                         | mm/mm             | ASTM D 955           |
| Mold Shrinkage, TD                         | 0.011                          | mm/mm             | ASTM D 955           |
| Density, 73°F                              | 1530                           | kg/m <sup>3</sup> | ASTM D 792           |
| Water Absorption, 24hr                     | 0.03                           | %                 | ASTM D 570           |
| <b>Mechanical properties</b>               | <b>Value</b>                   | <b>Unit</b>       | <b>Test Standard</b> |
| <b>ASTM Data</b>                           |                                |                   |                      |
| Tensile Strength                           | 108                            | MPa               | ASTM D 638           |
| Flexural Modulus                           | 6867                           | MPa               | ASTM D 790           |
| Flexural Strength                          | 167                            | MPa               | ASTM D 790           |
| Rockwell Hardness                          | M 87                           | -                 | ASTM D 785           |
| Izod Impact notched, 1/4 in                | 0.0848                         | kJ/m              | ASTM D 256           |
| <b>Thermal properties</b>                  | <b>Value</b>                   | <b>Unit</b>       | <b>Test Standard</b> |
| <b>ASTM Data</b>                           |                                |                   |                      |
| UL 94 Flame rating                         | V-0                            | -                 | UL 94                |
| Thickness tested                           | 0.8                            | mm                | -                    |
| Coefficient of Thermal Expansion, MD       | 30                             | E-6/K             | ASTM D 696           |
| DTUL @ 66 psi                              | 210                            | °C                | ASTM D 648           |
| DTUL @ 264 psi                             | 195                            | °C                | ASTM D 648           |
| Melting Temperature                        | 225                            | °C                | ASTM D 3418          |
| <b>Electrical properties</b>               | <b>Value</b>                   | <b>Unit</b>       | <b>Test Standard</b> |
| <b>ASTM Data</b>                           |                                |                   |                      |
| Dielectric Strength, Short Time            | 20                             | kV/mm             | ASTM D 149           |
| Dissipation Factor, 60 Hz                  | 0.01                           | -                 | ASTM D 150           |
| Dielectric Constant, 60 Hz                 | 3                              | -                 | ASTM D 150           |
| Surface Resistivity                        | 1E13                           | Ohm               | ASTM D 257           |
| Volume Resistivity                         | >1E15                          | Ohm*cm            | ASTM D 257           |
| Arc Resistance                             | 130                            | s                 | ASTM D 495           |
| <b>Characteristics</b>                     |                                |                   |                      |
| <b>Delivery form</b>                       | <b>Special Characteristics</b> |                   |                      |
| Pellets                                    | Flame retardant                |                   |                      |