

## TECHNICAL DATA SHEET

# PBT 4140-201D

ChangChun Group

PBT-GF40

## Processing

Injection molding

## Chemical Resistance

Solvent resistance, Oil resistance

## Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat  
Electrical and electronical

## Applications

| Processing/Physical Characteristics  | Value  | Unit   | Standard    |
|--------------------------------------|--------|--------|-------------|
| Mold shrinkage, MD                   | 0.0025 | mm/mm  | ASTM D 955  |
| Mold shrinkage, TD                   | 0.01   | mm/mm  | ASTM D 955  |
| Mechanical Properties                | Value  | Unit   | Standard    |
| Tensile strength                     | 132.4  | MPa    | ASTM D 638  |
| Flexural modulus                     | 10790  | MPa    | ASTM D 790  |
| Flexural strength                    | 176.6  | MPa    | ASTM D 790  |
| Rockwell hardness                    | M 95   |        | ASTM D 785  |
| Izod impact notched, 1/4 in          | 94.26  | J/m    | ASTM D 256  |
| Thermal Properties                   | Value  | Unit   | Standard    |
| 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                       | 190    | °C     | ASTM D 648  |
| Melting temperature                  | 225    | °C     | ASTM D 3418 |
| Electrical Properties                | Value  | Unit   | Standard    |
| Dielectric strength, short time      | 20     | kV/mm  | ASTM D 149  |
| Dissipation factor, 60 Hz            | 0.001  |        | ASTM D 150  |
| Dielectric constant, 60 Hz           | 3.5    |        | ASTM D 150  |
| Surface resistivity                  | 1E13   | Ohm    | ASTM D 257  |
| Volume resistivity                   | 1E15   | Ohm*cm | ASTM D 257  |

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| Electrical Properties  | Value | Unit              | Standard   |
|------------------------|-------|-------------------|------------|
| Arc resistance         | 90    | s                 | ASTM D 495 |
| Other Properties       | Value | Unit              | Standard   |
| Water absorption, 24hr | 0.03  | %                 | ASTM D 570 |
| Density                | 1750  | kg/m <sup>3</sup> | ASTM D 792 |