

**LONGLITE® PBT 3020-210XQ**

 Chang Chun Plastics Co., Ltd. (CCP Group) - *Polybutylene Terephthalate*
**General Information**
**Product Description**

PBT 3020-210XQ is a 20% glass fiber reinforced, impact-modified injection molding grade.

**General**

|                               |   |
|-------------------------------|---|
| Material Status               | • Commercial: Active                    |
| Availability                  | • Asia Pacific • Europe • North America |
| Filler / Reinforcement        | • Glass Fiber, 20% Filler by Weight     |
| Additive                      | • Impact Modifier • Mold Release        |
| Features                      | • Impact Modified                       |
| Forms                         | • Pellets                               |
| Processing Method             | • Injection Molding                     |
| Part Marking Code (ISO 11469) | • >PBT-GF20<                            |

**Properties <sup>1</sup>**

| Physical  | Nominal Value | Unit                  | Test Method |
|---|---------------|-----------------------|-------------|
| Density   | 1.43          | g/cm <sup>3</sup>     | ISO 1183    |
| Molding Shrinkage                                       |               |                       | ISO 294-4   |
| Across Flow   | 0.80 to 1.1   | %                     |             |
| Flow  | 0.10 to 0.40  | %                     |             |
| Mechanical  | Nominal Value | Unit                  | Test Method |
| Tensile Stress (Break)                                  | 14500         | psi                   | ISO 527-2   |
| Tensile Strain (Break)                                  | 3.0           | %                     | ISO 527-2   |
| Flexural Modulus  | 653000        | psi                   | ISO 178     |
| Flexural Stress   | 21800         | psi                   | ISO 178     |
| Impact  | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength (73°F)                   | 5.2           | ft·lb/in <sup>2</sup> | ISO 179/1eA |
| Thermal   | Nominal Value | Unit                  | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 419           | °F                    | ISO 75-2/B  |
| Deflection Temperature Under Load (264 psi, Unannealed) | 401           | °F                    | ISO 75-2/A  |
| Melting Temperature <sup>2</sup>                        | 437           | °F                    | ISO 11357-3 |
| Electrical  | Nominal Value | Unit                  | Test Method |
| Surface Resistivity                                     | 1.0E+13       | ohms                  | IEC 60093   |
| Volume Resistivity                                      | 1.0E+17       | ohms·cm               | IEC 60093   |
| Electric Strength (0.0787 in)                           | 640           | V/mil                 | IEC 60243-1 |
| Flammability  | Nominal Value | Unit                  | Test Method |
| Flame Rating (0.031 in)                                 | HB            |                       | UL 94       |

**Processing Information**

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 248 to 284    | °F   |
| Drying Time            | 3.0 to 5.0    | hr   |
| Suggested Max Moisture | 0.040         | %    |
| Processing (Melt) Temp | 464 to 518    | °F   |
| Mold Temperature       | 104 to 176    | °F   |

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min
