

## Technical Datasheet PBT 5020

### 1) Product Description:

PBT 5020 is a polybutylene terephthalate featuring high rigidity as well as excellent processability and chemical resistance.

### 2) Applications:

Injection molding of electronic and electrical parts  
Extrusion applications

### 3) Typical data:

| Property  | Test method | Unit                  | value      |
|---|-------------|-----------------------|------------|
| Density   | ISO 1183    | g/cm <sup>3</sup>     | 1.31       |
| Molding Shrinkage<br>Across Flow:0.0787 in<br>Flow : 0.0787in |             | %<br>%                | 0.8<br>0.9 |
| Water Absorption (Saturation. 73°F)                           |             | %                     | 0.10       |
| Tensile Modulus   | ISO 527-2   | psi                   | 370000     |
| Tensile Stress (Yield)  | ISO 527-2   | psi                   | 7400       |
| Tensile Strain (Yield)  | ISO 527-2   | %                     | 4.0        |
| Nominal Tensile strain Break                                  | ISO 527-2   | %                     | > 200      |
| Flexural Modulus  | ISO 178     | psi                   | 334000     |
| Flexural Stress   | ISO 178     | psi                   | 11000      |
| Charpy Notched Impact Strength (73°F)                         | ISO 179     | ft-lb/in <sup>2</sup> | 2.4        |
| Charpy Unnotched Impact Strength (73°F)                       | ISO179      | -                     | No Break   |
| Heat Deflection Temperature (66psi. Unannealed)               | ISO 75-2/B  | °F                    | 311        |
| Heat Deflection Temperature (264 psi. Unannealed)             | ISO 75-2/A  | °F                    | 149        |

\* Typical values not to be construed as specifications.