



Application

Dexnyl® PI7018 is suitable to composite with reinforcing materials, such as PTFE, graphite, molybdenum disulfide. It can effectively improve the heat resistance, abrasion resistance, and dimensional stability. When we composite Dexnyl® PI7018 with other material, other material is the base material. Currently most popular material is PTFE.

Because the toughness and adhesion of the first generation thermosetting superfine moulding powder (Dexnyl® PI7018) is poor, not suitable for pressing parts alone, so nowadays the main use of the first generation powder is used to compounded with PTFE is modified after use, composite by using PTFE as the main body.

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| Appearance | Yellow powder |
| Fineness | 1000 Meshes |
| Density | 1.40~1.45g/cm ³ |
| Glass transition temperature | 385°C |
| Thermal expansion coefficient | 20~25ppm/°C |
| Permissions on the oxygen index | 37 |
| The compression strength | ≥160MPa |
| The bending strength | ≥180MPa |
| The impact strength | ≥100KJ/M ² |
| Surface resistivity | ≥10 ⁹ Ω |
| Volume resistivity | ≥10 ⁹ Ω.cm |
| Dielectric constant(106Hz) | 3.0~3.5 |
| Dielectric strength (KV/mm) | 240 |



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All the tests have been made with a standard conditioning atmosphere of 23°C (at the moment no other temperature is available). The specified values are established from average values of several tests and they correspond to our today's knowledge. They are only to be used as information about our products and as help for the material selection. With these values, we do not ensure specific properties, or the suitability for certain application, therefore we do not assume any legal responsibility for an improper usage. The used test pieces have been machined from extruded semi-finished material. Since the plastics' properties depend on the manufacturing process (extrusion, injection moulding), on the dimensions of the semi finished material and on the degree of crystallinity, the actual properties of a specific product may slightly deviate from the tested ones. For information about divergent properties do not hesitate to contact us. On request we advise you regarding the most appropriate component design and the definition of material specifications more suitable to your application data. Notwithstanding, the customer bears all the responsibility for the thorough examination of suitability, efficiency, efficacy and safety of the chosen products in pharmaceutical applications, medical devices or other end uses.

Status: February 2017