# PTFE Graphite

## 75% PTFE + 25% Graphite

| Properties | Norm | Value | Unit |
|---|---|---|---|
| **Mechanical properties** | | | |
| Hardness shore D | DIN 53 505 | 59 – 65 | Sh. D. |
| Tensile strenght (23°C) | DIN 53 455 | 16 | N/mm² |
| Elongation at break (23°C) | DIN 53 455 | 100 - 240 | %min |
| Diametric shrinkage | - | 1,5 – 2,5 | % |
| **Physical properties** | | | |
| Colour | - | black/grey | - |
| Specific gravity | ASTM D4894 | 2,12 – 2,18 | g/cm³ |
| Water absorption | ASTM D570 | 0,01 | % |
| Deformation after 24h at 23°C - 15N/mm² | ASTM D621 | 8,10 | % |
| Deformation after 24h at 260°C - 4N/mm² | ASTM D621 | 16 | % |
| Compr.strenght at 1% deformation (23°C) | ASTM D695 | 7,30 | N/mm² |
| **Electrical properties** | | | |
| Dielectric strenght | ASTM D149 | 1 - 2 | KV/mm |
| **Thermal properties** | | | |
| Maximum Continous operating temperature | - | 250 | °C |
| Minimum Continous operating temperature | - | -200 | °C |
| Maximum operating temperature | - | 375 | °C |

### Product properties

- Improved wear resistance
- Decreased friction
- Increased sliding properties against soft metals
- Chemical inertness



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