



15% Ceramic PTFE Datasheet

Typical properties of 15% ceramic-filled PTFE

| Property | Method | Units | Specification |
|--|------------|-------------------|------------------|
| Specific gravity | ASTM D792 | g/cm ³ | 2.240 - 2.270 |
| Tensile strength | ASTM D4894 | MPa | ≥ 18 |
| Elongation | ASTM D4894 | % | ≥ 150 |
| Hardness | ASTM D2240 | Shore D | ≥ 62 |
| Deformation under load (14 N/mm ² 24 h at 23° C) | ASTM D621 | % | 10 - 12 |
| Permanent deformation (after 24 h relaxation at 23° C) | ASTM D621 | % | 5 - 7 |
| Coefficient of static friction | ASTM D1894 | | 0.30 - 0.32 |
| Coefficient of dynamic friction | ASTM D1894 | | 0.28 - 0.30 |
| Dielectric strength | ASTM D149 | KV/mm | 20 - 25 |
| Volume resistivity | ASTM D257 | Ohm cm | 10 ¹⁵ |
| Service temperature | | C° | -200 / +260 |

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