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Virgin PTFE Datasheet

Typical properties of virgin PTFE:

| Property | Method | Units | Values |
|---|------------------------|----------------------------|--|
| Specific gravity | ASTM D792 | - | 2.13 - 2.20 |
| Tensile strength | ASTM D638 | MPa | 20 - 35 |
| Elongation at break | ASTM D638 | % | 210 - 350 |
| Hardness | ASTM D2240 | Shore D | 50 - 60 |
| Flexural strength | ASTM D790 | N/mm ² | No break |
| Flexural modulus | 23° C | N/mm ² | 600 - 700 |
| Impact strength 23° C | ASTM D256 | J/cm | 1.65 |
| Deformation under load | ASTM D695 | % | 10 - 13 |
| Permanent deformation | ASTM D695 | % | 6 - 7.5 |
| Dielectric constant | ASTM D150 | - | 2.1 |
| Dielectric strength | ASTM D149 | kV/mm | 20 - 70 |
| Volume resistivity | ASTM D257 | Ohm cm | 10 ¹⁸ |
| Melting point | | ° C | 327 |
| Working temp | | ° C | -200 to +260 |
| Flammability rating | UL94 | | V0 |
| Limiting oxygen index | ASTM D2863 | % | >95 |
| Coefficient of linear thermal expansion | ASTM D696 ASTM D831 | 78 - 400° F 25 - 100° C | 4 - 9 x 10 ⁻⁵ 16 x 1 ⁻⁵ |

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