

RHONDAMA LIMITED PTFE VIRG

PTFE Virginal Hardness 55° Shore D White

Mechanical, physical and thermal properties

| Properties | Condition | Standard | Unit | | | |
|----------------------------------|------------|----------------------|---|-------|---|-------|
| Colour | | | | White | | White |
| Density/specific gravity | 23°C | DIN 53479 | Kg/m ³ | 2160 | g/cm ³ | 2,16 |
| Hardness | 23°C | ISO 868 | Shore D | 55±3 | Shore D | 55±3 |
| Ball indentation hardness | 23°C | DIN 53456 H135/30 | MPa | ≥26 | Psi | ≥3770 |
| Tensile strength | 23°C | ASTM D 4745-79 | MPa | ≥27 | Psi | ≥3916 |
| Elongation at break | 23°C | ASTM D 4745-79 | % | ≥350 | % | ≥350 |
| Compressive strength | 23°C | DIN 53455 | MPa | ≥4 | Psi | ≥580 |
| Thermal conductivity | 23°C | DIN 52612 | $\frac{J \times 10^3}{m \times h \times K}$ | 0,08 | $\frac{J \times 10^3}{m \times h \times K}$ | 0,08 |
| Coefficient of thermal expansion | 25°C-200°C | | K ⁻¹ × 10 ⁻⁵ | 19 | K ⁻¹ × 10 ⁻⁵ | 19 |
| Coefficient of friction | * | | μ | 0,08 | μ | 0,08 |
| Minimum service temperature | | | °C | -200 | °F | -328 |
| Maximum service temperature | | | °C | 260 | °F | 500 |
| Young's modulus | | DIN 53457 | MPa | 540 | Psi | 78500 |

* dynamic coefficient of friction, dry, steel 16MnCr5: v=0,6 m/s; p=0,05 MPa; t=5h

Chemical Properties

PTFE Virginal

Resistant to: almost all chemicals

Not resistant to: halogenides, elemental fluorine, CF₃, molten alkali metals
Detailed information concerning chemical resistance see Rhondama Compatibility Chart

Foodstuff approval: FDA Approval