|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| property | PTFE  virgin | PTFE  25% GLASS | PTFE  25% Carbon | PTFE  65%bronze | METHOD | UNIT |
| Specific gravity | 2.15-2.20 | 2.23-26 | 2.05-2.12 | 3.90-3.98 | ASTMD792 | 3  g/cm |
| Flammability | VE-0 | NC | NC | NC | UI94 | % |
| Water absorption | 0.01 | - | - | - | ASTM D570 | % |
| Tensile strength | 20-30 | 13-18 | 13-18 | 17-22 | ASTM D1457 | 2  N/MM |
| Elongation at break | 220-300 | 120-180 | 120-180 | 100-180 | ASTM D1457 | % |
| Compression strength 1% deformation | 4.5 | 10 | 10 | 10-5 | ASTM D695 | 2  N/MM |
| Impact coefficient | 1.5 | - | - | - | ASTM D256 | J/CM |
| Hardness (shore D-15 sec) | 50-60 | 62-66 | 62-66 | 65-70 | ASTM D2240 | SHORE D |
| Coefficient of friction | 0.05-0.09 | 0.1-0.2 | 0.1-0.2 | 0.07-0.2 | ASTM D1894 | - |
| DEFORMATION INDER LOAD  (14/MM2.24 AT 23 C) | 14.5 | 6-7 | 6-7 | 6-7 | ASTM D621 | % |
| Permanent deformation after 24h relaxation at 23 c | 8.0 | 3-4 | 3-4  - | 2-3 | ASTM D695 | % |
| Dielectric constant 50 to 10 hz) | 2.1 | - | - | - | ASTM D150 | - |
| Dielectric strenght | 55 | - | - | - | ASTM D149 | Kv/mm |
| Volume resistivity | 18  10 | 4  10 | 4  10 | - | ASTM D257 | n/cm |
| Coefficient of liner expansion | 16 ×10 | -5  9.5×10 | -5  9.5×10 | -5  9.5×10 | ASTMD831  - | 0 -1  C |
| Max.continuous operating temp. | 250-260 | 250-260 | 250-260 | 250-260 | - | 0  C |
| Service temperature | 260+200- | -200-+260 | -200-+260 | -200-+260 | - | W/MK |
| Thermal conductivity | 0.23 | 0.64 | 0.64 | 0.74 | ASTM D2214 | W/MK |