

| Material | Formula | Abrasive resistance - ASTM D1044 mg/1000 cycles | Coefficient of friction | Compression set after 24 hr at 175C % | Compressive modulus GPa | Compressive strength MPa | Elongation at break % | Hardness - Rockwell | Izod impact strength h J m ⁻¹ | Poisson's ratio | Tear strength N mm ⁻¹ | Tensile modulus GPa | Tensile strength MPa |
|---|------------------------------------|---|-------------------------|---------------------------------------|-------------------------|--------------------------|----------------------------|---------------------|--|-----------------|----------------------------------|---------------------------------|-------------------------------|
| Polypropylene | PP | 13-16 | 0.1-0.3 | - | - | - | 150-300, for biax film >50 | R80-100 | 20-100 | - | - | 0.9-1.5, for biax film 2.2-4.2, | 25-40, for biax film 130-300, |
| Polystyrene | PS | - | - | - | - | - | 1.6 | M60-90 | 19-24 | 0.35 | - | 2.3-4.1 | 30-100 |
| Polystyrene - Conductive | High Impact Conductive Polystyrene | - | - | - | - | - | 36 | - | no break | - | - | 1.6 | 27 |
| Polystyrene - Cross-linked | PS - X - Linked | 60-100 | - | - | - | - | 3-5 | R110-120 | - | - | - | 1.65 | 55-70 |
| Polysulphone | PSu | - | - | - | - | - | 50-100 | M91 | 69 | - | - | 2.48 | 70 |
| Polytetrafluoroethylene | PTFE | - | 0.05-0.2 | - | - | - | 400 | D50-55 - Shore | 160 | 0.46 | - | 0.3-0.8 | 10-40 |
| Polytetrafluoroethylene filled with Glass | PTFE 25% GF | - | 0.08-0.10 | - | - | - | 100-300 | D60-70 - Shore | 144 | - | - | 1.7 | 7-20 |
| Polyvinylchloride - Unplasticized | UPVC | - | - | - | - | - | 60 | R106-120 | 20-1000 | - | - | 2.5-4.0 | 25-70 |
| Polyvinylfluoride | PVF | - | - | - | - | - | 90-250 | D80 - Shore | 180 | 0.4 | 130-200 (initial) | 2.1 - 2.6 | 55-110 |
| Polyvinylidene fluoride | PVDF | 24 | 0.2-0.4 | - | - | - | 50 | R77-83 | 120-320 | 0.34 | - | 1.0-3.0 | 25-60 |
| Silicone Elastomer | MQ /VNQ /PMQ /P VMQ | - | - | - | - | - | - | 60 degrees Shore A | - | - | - | - | 6.5 |
| Tetrafluoroethylene-perfluoro(alkoxy vinyl ether) - Copolymer | PFA. Teflon PFA. | - | - | - | - | - | 300 | - | - | - | - | - | 25 |

All information and technical data are given as a guide only. Although every effort has been made to ensure that the information is correct, no warranty is given as to its completeness or accuracy.

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