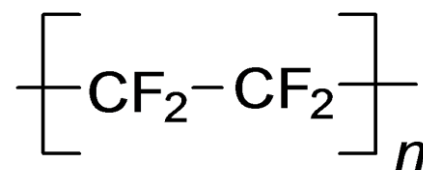


Polytetrafluoroethylene (PTFE)



SPECIFICATIONS

Property	Spec	Value
Hardness Shore D	ISO 868	60 ± 3
Tear Strength	ASTM D4745-79	≥ 20 MPa
Density	DIN 53479	2300 kg/m ³
Elongation at Break	ASTM D 4745-79	≥ 260 %
Min. Operating Temperature		-200°C
Max. Operating Temperature		260°C
Color		Gray

DESCRIPTION

MT325 is a PTFE material with hardness 60D, specially compounded as universally applicable. Polytetrafluoroethylene (PTFE) has exceedingly strong carbon-fluoride bonds. These molecular structure properties make PTFE extremely resistant to chemicals or solvents even at very high temperatures and high pressures. PTFE also has very low friction and good anti-stick characteristics. PTFE is tough and flexible even at very low temperatures. However the same molecular structure properties result in mediocre mechanical properties with low stiffness and strength among thermoplastics. PTFE articles cannot be formed with conventional processes for thermoplastics because it does not flow above its crystalline melting point. Parts can be formed by a sintering process under high temperatures. Due to its long service life, MT325 meets the highest requirements in the hydraulic field. MT325 shows excellent friction and wear resistance values and is therefore very well suited for movements with short stroke lengths and high frequency. Possible applications include: hydraulics, fluid technology, automotive, mobile hydraulics and wind power.