DELRIN (POM, Acetal) BALLS

Very light homopolimeric thermoplastic resin balls, they provide good mechanical characteristics, corrosion resistance, wear and abrasion resistance. They are even good electric insulators and auto lubricant materials.

Spray agitators, light safety valves, low load beaumedical instruments. They are used in foodstuff, ch				How oncore	
Polyoxymethylene	Delrin		POM	(~CH2OH)	
Physical A	mechanical / therm	al / electric / magı	netic properties		
Density	δ	[g/cm3]	Physical	Room temp.	1.37
Young's modulus	E	[MPa]	Mechanical		2800
Friction coefficient	ш		Mechanical	Room temp.	0.28
Water absorption	Aw	%	Physical	24 h	0.3
Coefficient of linear thermal expansion	α	[10^-6/°C]	Thermal	(ΔT=0-100°C)	93
Thermal conductivity	λ	[W/(m·K)]	Thermal	Room temp.	0.27
Volume resistivity	ρ	[Ω*m]	Electric	-	> 10^13
Relative magnetic permeability	μ		Magnetic	Diamagnetic	<~1
	Techr	nical data	/		
Property	Type	U.o.M.	Values	U.o.M.	Values
Hardness	Mechanical	[Shore D]	80 - 90	-	-
Compressive yield strength	Mechanical	[MPa]	30 - 120	[psix10^3]	4 - 17
Service temperature	Thermal	[°C]	-40 / 85	[°F]	-40 / 185
	R	ange			
Diameters (min/max) U.o.1	M. D	Diameters (min/max)		Precision Grade	
1.000 - 350.000 [mr		3/64 - 14 Corrosion Resistance		["] 0 - 1 - 11 - 111	

Delrin is resisting in contact with basic, neutral and average acid compounds, sea water, petroleum products, mineral oils and greases, inorganic salt solutions, aliphatic, aromatic and chlorine hydrocarbons, low gradation alcohols, ether. It's not resisting in contact with strong acids (hydrochloric, phosphoric, nitric and sulphuric), mineral acids, chlorides, alkalis.