

PROPERTIES OF STYLE - 51 P.T.F.E. GLAND PACKING

1. Description : P.T.F.E. PACKINGS
2. Ingredient : Poly tetra Fluoro Ethylene Yarn and Dispersion (70% - +/-5%),
Silicon Oil (30% - +/- 5%)
3. Construction : High tensile yarn made from a special PTFE, impregnated with PTFE
Dispersion and lubricated with inert temperature lubricant.

Properties of P.T.F.E. Fine Powder:

Properties	Test Method	Unit	Nominal Value
Powder Properties			
Bulk Density	ASTM D 4895	g/l	500
Average particle size (d ₅₀)	ASTM D 4895	µm	525
Processing			
Extrusion pressure (Reduction ratio 400:1)	ASTM D 4895	MPa (psi)	35 (5076)
Mechanical Properties			
Std. specific gravity (SSG)	ASTM D 4895	-	2.175
Tensile Strength	ASTM D 4895	Mpa (psi)	33 (4786)
Elongation	ASTM D 4895	%	330

Properties of P.T.F.E. Dispersion:

Properties	Test Method	Unit	Nominal value
Solid content (% PTFE resin by weight)	ASTM D4441/DIN EN ISO 12086	%	60
Surfactant content on PTFE solids	ASTM D4441/DIN EN ISO 12086	%	6
Specific gravity	ASTM D4441/DIN EN ISO 12086	-	1.51
Average particle size	INTERNAL	Nm	230
pH of dispersion	ASTM E70/DIN ISO 976	-	>9.5

1. Service Parameters :

Service Parameters :	Temp.	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-200 to +260	0-14	100	8

Properties of Silicon Oil

1. Silicon Content : 100%
2. Specific Gravity : 0.967 – 0.975
3. Viscosity @ 25 °C : 1000 +/- 50 CST
4. Appearance : Water White
5. Flash Point : 304 °C

