



COLETÂNEA DE INFORMAÇÕES TÉCNICAS – AÇO INOXIDÁVEL

Comparison of Physical Properties Of Different Materials

Item	Unit	FRP	Stainless Steel	Polyethylene	Poly Vinyl-Chloride
Specific Gravity	-	1.4~1.7	7.8	0.96	1.32~ 1.44
Tensile Strength	Kg/mm ²	8~18	20~23	2.0~3.1	3.9~ 6.3
Tensile Flexural Modulus	Kg/mm ²	750~ 1,500	21,100	56~105	140~ 420
Elongation	%	1.0~1.8	38~39	50~60	200~450
Compressive Strength	Kg/mm ²	12~22	19.7	-	7.0 ~ 7.7
Flexural Strength	Kg/mm ²	20~30	19.7	1.4~2.1	5.6~ 10.5
Modulus of Elasticity	Kg/mm ²	650~ 1,500	21,100	105	140 ~ 420
Modulus of Thermal Conductivity	Kcal/mh ^o C	0.2~0.3	40	0.1	0.15 ~ 0.28
Specific Heat	Kcal/kg °C	0.29~ 0.32	0.1~0.11	0.55	0.3~0.5
Coefficient of Linear Expansion	10 ⁶ / °C	15~30	11-14	110~130	50 ~ 99
Temperature Limit	°C	-50 ~+120	-	+65 ~ 70	+60~65

