



Toray/Soficar/R&K Nov.2003

Specification of T700S Family Fibres

Type/Grade	Sizing	Tensile Strength MPa Min./nom.	Tensile Modulus GPa min.- max.	Elongation % min.	Yield tex min.- max.	Density g/cm ³ min.- max.	Sizing % min.- max.
T700SC-12K	50C 60E	4510/4900	221 - 240	1.9	776 - 824	1.76 - 1.84	0.8 - 1.6 0.05 - 0.5
T700SC-24K	50C 60E	4510/4900	221 - 240	1.9	1600 - 1700	1.76 - 1.84	0.8 - 1.6 0.05 - 0.5
T600SC-24K	50C 60E	3720/4140	221 - 240	1.5	1650 - 1750	1.76 - 1.84	0.8 - 1.6 0.05 - 0.5
T700SC-12K	F0E	4510/4900	221 - 240	1.9	776 - 824	1.76 - 1.84	0.4 - 0.9
T700GC-12K	31E	4510/4900	230 - 250	1.8	776 - 824	1.76 - 1.84※	0.3 - 0.9
T700GC-24K	31E	4510/4900	230 - 250	1.8	1600 - 1700	1.76 - 1.84※	0.3 - 0.9

※ : To be reviewed and determined.

Sizing for Torayca Fibres

Sizing code	Description	Recommended Matrix	Typical sizing content (%)
1	Epoxy	Epoxy	0.5
2	Bisphenol A epoxy	Epoxy	1.2
3	Epoxy (strong adhesion)	Epoxy	0.6
4	Bisphenol A epoxy + Urethane	Epoxy	1.0
5	Bisphenol A epoxy + Unsaturated polyester	Epoxy, Polyester	1.2
6	Bisphenol A ester	Epoxy	0.2
F	Urethane ester	Vinylester, Epoxy	0.6

Note : Sizing content depends on sizing agent, fiber type and filament count.