

Property Table

SUMIKA SUPER[®] S300

※SUMIKA SUPEER S300 is registered trademark of Sumitomo Chemical Company,Limited.

Properties	Unit	S300 E101/PTFE	PTFE Glass Fiber/PTFE (25 / 75)	PTFE CarbonFiber/PTFE (25 / 75)
● Physical properties				
Specific Gravity	-	1.84	2.24	1.93
● Mechanical properties				
Tensile Strength	MPa	10.8	20.6	17.7
Elongation	%	230	310	70
Shore hardness	D	64	64	70
Compressive Strength (0.2% offset)	MPa	11.7	9.0	10.8
(1% deformed)	MPa	9.2	8.3	9.8
(10% deformed)	MPa	22.2	18.0	27.2
(25% deformed)	MPa	32.4	29.0	47.1
Compression modulus	MPa	981	941	1177
Compression creep	%	2.1	7.7	1.7
23°C 13.7MPa 24hr	%	0.5	3.1	1.3
100°C 6.9MPa 24hr	%			
Permanent deformation	%	1.8	5.2	1.2
23°C 13.7MPa 24hr	%	1.0	3.2	1.4
100°C 6.9MPa 24hr	%			
● Thermal properties				
Coefficient of thermal expansion MD	×10 ⁻⁵ /°C	12.9	12.0	13.2
TD	×10 ⁻⁵ /°C	8.3	7.7	4.7
Thermal conductivity	W/m·°C	0.34	0.26	0.39

The above values are for reference only and are not guaranteed.

YP16-S300-10

