

Product Information

Technical data of Leaf Springs

Matrix: modified Epoxy Resin
 Reinforcement: non-woven Fibreglass
 Service Temperature Range: -60°C - +75°C

Properties at RT	spring configuration <i>(see drawing)</i>	unidirectional <i>(100% longitudinally oriented)</i>	crossply <i>(50% longitudinally- and 50% cross oriented)</i>
flexure strength [N/mm ²]	932	1151	760
tensile strength [N/mm ²]	800	960	480
compression strength [N/mm ²]	724	880	690
modulus of elasticity [N/mm ²]	28000	38000	24000
BARCOL-hardness	70	70	70
flexural fatigue [N/mm ²]	138	158	120
friction coefficient S-Ply / Steel	0,17 _μ	0,17 _μ	0,17 _μ
friction coefficient S-Ply / Aluminium	0,18 _μ	0,18 _μ	0,18 _μ
poisson ratio	0,074	-	-

sample thickness: 3 mm
 prepreg-thickness: 0,25 mm

Drawing:

spring - configuration

