EMSOPLAST Technical data sheet
for semicircular and dogbones
Formblatt 7.13

EMS FVK-Profile

properties	test method	Technical data	unit
resin type		unsaturated polyester	
type of reinforcement		Glas : Roving	
fibre content		65-71	Gew.-%
specific weight		1,88-1,95	g/cm³
flexural strength	P	350-800	N/mm²
flexural strength	S	35-110	N/mm²
flexural E-module	P	$7 - 44 \times 10^3$	N/mm²
tensile strength	P	200-450	N/mm²
tensile strength	S	30-90	N/mm²
compressive strength		100-300	N/mm²
dielectric constant		4,7	
spec. electrical resistance		10^{12}	Ω x cm
penetration resistance	P	5-10*	KV/mm
trickle current resistance	P	600	CTI
1-min test-voltage	S	8	KV/mm
coefficient of thermal expansion	P	$15-25 \times 10^{-6}$	K^{-1}
water absorption		< 1	Gew.-%
head conductivity		0,3	W/mK
recommended temperature limit		180 (thermal class H)	Grad C
P= parallel to laminated surface			
* = depending of Fiber orientation			
S= perpendicular to laminated surface			

our data sheets and publications should assist you in your consultation. All the values given are average values under normal conditions: they are not to be tips for the support of our clients in the utilization of our products. They do not relieve the client of the requirement to carry out trials on their own with our products to ensure that the products fulfill the posed requirements.
Furthermore we make reference to our general sales, delivery and payment conditions.