Dogbones
Cornerprofiles

Distanceprofil for the production of transformers
Konstructionprofil

NR – Quality

S3 - Quality
Iso-CL. F (155°C)
Selfextinguish

Glassfiber reinforced polyesetrprofiles are produced endless in the pultrusions-process. The glassstandart is approx. 50-60%. The deliveryprogramm has got a lot of profiles for different usages. Round-, half-round, rectangular-, rods-, L-, U-, C-, hatprofiles and dogbones and special profiles which can be done to customer needs.
profile, die auf Kundenwunsch gefertigt werden.

Glassfibre reinforced polyesetrprofile have got a lot of advantages compared with metal, wood and thermoplastics. Polyesterprofiles do not age and is not getting deformed either with high or low themperatures. Polyesterprofiles are resistant against chemicals and standart solvent. The strengths/weight-proportion is higher than wood, thermoplastics, steel or aluminium. Polyesterprofiles combined the strengths of the stability of steel with the insulating attribute of plastic.

Technical Data	Unit	Iso-Cl H (180°C)	Iso-Cl. F (155°C)	Testmethod
Mechanical Data		**NR**	**S3**	
Tensile Test				
Stress at breakdown at 20°C	Mpa	450	300	ISO 3268, Type II
150°C	Mpa	100		ISO 3268, Type II
Module of eleasticity at 20°C	Mpa	14100	9500	ASTM D-790
150°C	Mpa	10000		
Deflection Test				ISO 178
Transverse stress at break	Mpa	27	19	
Modele of elasticity	Mpa	5600	3600	
Machine direction stress at break	Mpa	700	480	
Module of elasticity	Mpa	29000	18000	
Compression Test				
Stress at break	Mpa	300	190	
Module of elasticity	Mpa	3800	2500	
Elektrical Data				
Power factor (50 Hz)		$13x10^{-3}$	$18x10^{-3}$	VDE 0345
Dielektric constant		5,5	5,4	DIN 53483 Seite 2
Arc resistant	sek	100	100	
Dielelectrical strenght (transverse)	kV/mm	12	12	ASTM D-229
Dielelectrical strenght (longitudinal)	kV/mm	50	50	DIN 53483 Seite 2
Insulationclass	°C	180	155	ISO75 / SP
Surface resistance 23°C, 50% rf	Ω	$>2x10^{14}$	$1,7x10^{14}$	DIN 53482
Volume resistivity 22°C, 60% rf	Ω/cm	$0,55x10^{15}$	$0,53x10^{14}$	
Thermal conductivity	W/m°C	0,57	0,57	
Deliverylength	mm	3070/2500/2000	3070/2500	

These technical data correspond to mean and do not release the consumer from doing their own tests
Alteration are subject to change