

GLASS FILAMENT FABRICS for PLASTICS REINFORCEMENT
PRODUCT SPECIFICATION

			Specification
Style Number	92140	Old ITG desc.	92140 MIL-Y-1140H
US Style			AMS / MIL-C-9084
WLB No.	8.4554.60		DIN 65066
British Standard			BS 3396

Finish/Designatio	FK144
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	Unit	Tolerance		Specification
Weave pattern		2 x 2 twill		DIN ISO 9354
Area weight	g / m ²	390,0	± 5%	DIN EN 12127
Yarn	tex			DIN EN 12654
warp yarn		EC9-68x5 t0 tex		
weft yarn		EC9-272 tex		
Fibre count	1 / cm			DIN EN 1049
warp ends		6,0	± 5%	
weft picks		6,7	± 5%	

Temperature resistance 1)			
Continuous load	°C	260	
Short time resistance	°C	600	

Moisture content	%	< 0,2		DIN EN 3616
Finish content	%	0,08 - 0,28		DIN ISO 1887
				DIN EN 60

Thickness (approx. dry)	mm	0,45	± 5%	DIN ISO 4603/E
in laminate (43% Vol.)	mm	0,30	± 5%	

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	Unit	Standard	P-D ITG	Tolerance	Specification
Style Number		92140			/ FK144
Tensile Strength					ASTM D 4029
warp	N/cm			>	
weft	N/cm			>	
Tensile strength					DIN EN 2747
warp	MPa	335	420	>	
weft	MPa	320		>	
Young's-Modulus					
warp	GPa	19		>	
weft	GPa	18		>	
Compression strength					DIN 53454
warp	MPa	375		>	DIN 65380
weft	MPa	360		>	DIN prEN 2580
Compression-Modulus					
warp	GPa			>	
weft	GPa			>	
Interlaminar shear strength					DIN EN 2377
warp	MPa	50		>	
weft	MPa	45		>	
Flexural strength					DIN EN 2746
warp	MPa	495		>	
weft	MPa	460		>	
Flexural-Modulus					
warp	GPa	24		>	
weft	GPa	24		>	

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Remarks

1) Temperature resistance for dry fabrics