

DESCRIPTION AND NOMENCLATURE OF E GLASS SINGLE YARNS

Description: e.g. **EC9 - 68 Z28 T30K H9 (ECG 75 1/0 0.7Z T30K H9)**

According ISO 2078		According ASTM D578	
E	Type of glass	E	Type of glass
C	For continuous filament	C	For continuous filament
9	Diameter of the filament in μm	G	Filament diameter US units
68	Nominal yarn count (in $\text{tex}=\text{g}/1000\text{ m}$)	75	Linear density in 100 yards / lbs.
		1/0	First digit: number of identical single yarns twisted together. Second digit: number of plied yarns twisted together.
Z	Direction of twist	0.7	Twist number in turns/inch
28	Twist number in turns/m	Z	Direction of twist
T30K	Vetrotex size designation	T30K	Vetrotex size designation
H9	Type of bobbin	H9	Type of bobbin

CONVERSION:

US - Units (Inch/Pound) - European Units (S/I-Units)

			Approximate number of filaments									
			50	100	200	400	600	800	900	1200	1600	1800
μm	5	tex	2,8	5,5	11							
US	D	h.y.p.p.	1800	900	450							
μm	6	tex							66			134
US	DE	h.y.p.p.							75			37
μm	7	tex			22	44						
US	E	h.y.p.p.			225	110						
μm	9	tex			34	68 / 74	110	136		204	272	
US	G	h.y.p.p.			150	75 / 67	45	37		25	18	
μm	11	tex			51	102		204		340	408	
US	H	h.y.p.p.			100	50		25		15	12	
μm	13	tex				136		272			544	
US	K	h.y.p.p.				37		18			9	

<p> Tex = grams per 1000 m h.y.p.p. = "hundred yards per pound" yard (yd) = 0,9144 m inch (in) = 25,4 mm pound = 0,4536 kg Tex = 4691/h.y.p.p </p>	<p style="text-align: center;"> Number of filaments = $\frac{4000 * Tex}{3.14 * D^2 * 2.6}$ </p> <p> Tex: yardage in Tex value D : filament diameter in μ 2,6 : E glass density in g/cm³ </p>
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SAINT- GOBAIN VETROTEX STANDARD TWISTS:

t/m	tpi
16	0.4
20	0.5
28	0.7
40	1.0

T/m = Twists per meter
 Tpi = "Twists per inch"