

Technical Data Sheet

GROUPEVE 3D GLASS FABRICS

Fabric				PARAGLASS							PARATANK				
				Type	3	5	8	10	12	15	18	22	3	5	6
For laminated thickness²															
Laminate		mm		3.0	5.0	8.0	10.0	12.0	15.0	18.0	22.0		3	5	6
Face		mm		0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6		0.4	0.4	0.4
Weight															
Fabric		kg/m ²		0.78	0.84	0.93	1.36	1.50	1.58	1.68	1.72		0.75	0.85	0.90
Laminate		kg/m ²		1.66	1.78	1.97	2.98	3.13	3.42	3.53	3.61		1.82	1.98	2.20
Thermal Properties															
Thermal Conductivity	λ	GB/T10294-1988	W/mK	0.06	0.06	0.06	0.08	0.08	0.08	0.08	0.08		0.06	0.06	0.06
Thermal Resistance	R		m ² K/W	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09		0.05	0.07	0.11
Mechanical Properties															
Compressive strength	σ_c	GB/T1453-2005	Mpa	typ	10.2	7.5	3.8	3.3	2.5	2.0	1.2	0.6	9.0	7.0	4.0
				min	7.8	3.8	2.3	1.4	1.0	0.9	0.7	0.3	7.1	5.4	4.0
Shear strength	τ	GB/T1455-2005	Mpa	typ	6.5	4.3	2.3	1.5	1.3	1.1	0.9	0.5	6.8	4.9	2.6
				min	4.2	1.4	1.2	0.9	0.7	0.5	0.4	0.2	4.5	1.6	1.5
Shear modulus	G_c	GB/T14564-2005	Mpa	typ	9.8	8.9	8.5	7.8	4.5	4.2	3.1	2.6	15.0	12.0	11.0
				min	7.8	7.1	5.4	4.3	2.6	2.1	1.8	1.4	12.0	9.0	6.5
Bending stiffness	EI	GB/T1456-1988	Nm ²	typ	2.3	4.8	8.1	14.5	18.5	26.5	55.8	57.1	2.9	5.2	6.3
				min	0.5	1.8	3.3	9.7	13.2	21.2	32.1	32.8	0.8	1.9	3.1

Note:

All mechanical and thermal properties are obtained on laminates prepared according to the Application Instruction. The mechanical properties are classified in two categories: typ(ical) and min(imum). A typical value is the mean average of a number of test values and a minimum value is the minimum property. The values differ with the direction of the fabric. Weft direction results in better mechanical properties than warp direction.

Legenda:

Standard polyester resin with average mechanical properties

For laminates with a pile angle of 70°/ 80°

² Glass/ resin ratio according to Resin consumption table

The above performance index for information purposes only, based on the user's performances.

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