TECHNICALSPECIFICATIONS

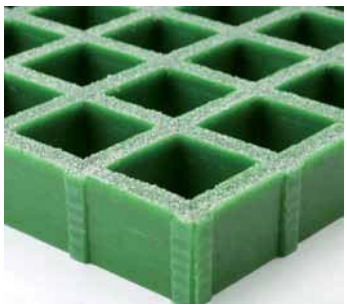
MECHANICAL PROPERTIES

PROPERTY	LONGITUDINALVALUE	TRANSVERSALVALUE	UNITS	TEST
Tensile strength	280~ 400	30~ 50	MPa	ASTMD 638
Tensilemodulus	20~ 30	5~7	GPa	ASTMD 638
Flexuralstrength	280~ 400	70~ 100	MPa	ASTMD 790
Flexuralmodulus	18~ 20	7~ 10	GPa	ASTMD 790
FlexuralE- modulus FULL BENDING	23~ 28	-	GPa	ISO 14125
Compressivestrength	210~ 280	80~ 100	MPa	ASTMD 695
Compressive modulus	18~ 20	3~5	GPa	ASTMD 695
Interlaminar shearstrength	25~ 35	-	MPa	ASTMD 2344
Interlaminar shear modulus	2~3	-	GPa	ASTMD 2344
Poisson'sratio	0,3	0,1	-	ASTMD 3039
Pin bearingstrength	150	70	MPa	ASTMD 953
Impactstrength	> 150		daNcm/cm^2	UNI 6062-67

CHEMICAL-PHYSICAL PROPERTIES

PROPERTY	VALUE	UNITS	TEST
Density	1,65~ 1,85	kg/dm^2	UNI 7092-72
Glasscontent inweight	50~ 70	%	-
Water absorption	0,5~ 1,0	% in peso	UNI ISO 62
Dielectricstrength	3~7	kV/mm	UNI 4291-72
Surface insulationresistance	10^{10}~ 10^{13}	Ω	UNI 4288-72
Dielectricconstantat 50 Hz	4~6	-	UNI 4289
Lossfactorat 50 Hz	0,03~ 0,04	Tgδ	UNI 4289
Insulatingclass	F/H	-	-
Coefficientof thermalexpansion	15~ 17	1/°Cx10^6	UNI 6061-67
Thermalconductivity	0,2~ 0,3	Kcal/m H°C	UNI 7891

Thevaluesaboveindicatedareaveragevaluesandcanchangedependingonthebeamsection,typeofreinforcementandresinmatrix. Ferrograte doesnotassumeanyresponsabilityregardingtheuseoftheaboveindicatedvalues,whicharegiveningoodfaith.



Gratings

Fences

Fences

Verticalladders