Physical properties Cevodur WHA + Graphit

comparable standards:	ISO-description (ISO)	PF CC 201
	description (to DIN 7735)	Hgw 2082 + Graphit (plate)

This table is a valuable help in the choice of a material. The data listed here fall within the normal range of products properties, but they should not be used to establish material specification limits nor used alone as the basis of design.

Property	Method of testing	Unit	max./ min.	Ref. Value DIN-EN 60893-3-4	Test value Median
Mechanical properties					
Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	100	A 133.67 B 136.07
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	7000	A 7450 B 7198
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	200	298.32
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m^2	min.	20	A 25.44 B 23.29
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30	A 45.03 B 47.52
Tensile strength	ISO 527-4	MPa	min.	60	A 81.87 B 73.94
Electrical properties					
Electric 1trength hat 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	0.5	0.66
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	1	2
Insulation resistance after immersion in water	IEC 60167	Mohm	min.	1	10
Surface resistance RT antstatic		Mohm	max.	10‘000	3552
Comparative tracking index CTI	IEC 60112	CTI	min.	100	150
Tracking and erosion resistance	IEC 60112	Klasse	min.		
Other properties					
Thermal endurance	IEC 60216	T.I.		120	
Density	ISO 1183	g/cm^3		1.3 – 1.4	1.390
Water absorption, absolute	ISO 62	%	max..	1.5	0.76
Coefficient of friction µ					0.218
Linear rate of wear		mg/kg			2.21

Base material: Woven cotton cloth
Matrix resin: Phenolic with graphite additive

BBC Cellpack Technology AG
Anglikerstrasse 99
CH-5612 Villmergen

Phone +41 56 618 14 28
technology@cellpack.com
technology.cellpack.com