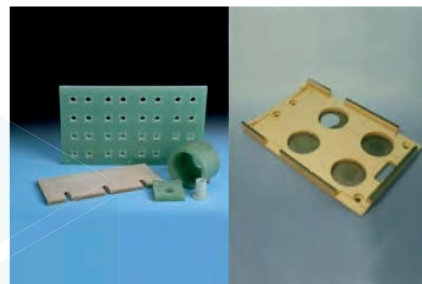
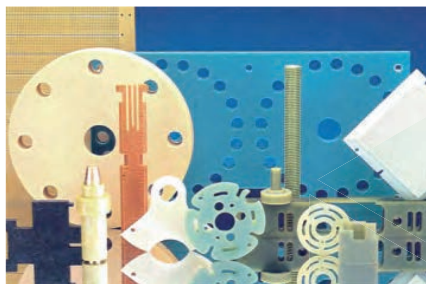




COMPOSITES ●●●

TERVID EP 180H

Quality higher than TERVID EP 155F with a temperature limit of 180°C and class H (CEI). It is an insulating laminate composed of glass fabric bonded with epoxy resin.



MAIN CHARACTERISTICS

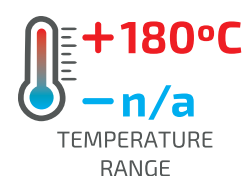
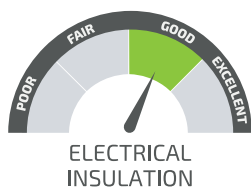
- Excellent retention of mechanical resistance, even at high temperatures
- Good electrical properties
- High comparative tracking index

APPLICATIONS

- High frequency equipment
- Elements that support very high dynamic efforts
- Presses and moulds

POLY

LANEMA



COMPOSITES

TECHNICAL DATASHEET



PROPERTIES	TEST METHODS	UNITS	TERVID EP180H
DENSITY	ISO 1183	g/cm³	1.85
WATER ABSORPTION			
AFTER 24H IMMERSION IN WATER OF 23°C	ISO 62	mg	10
		%	0.04
THERMAL PROPERTIES			
TEMPERATURE INDEX (TI)	IEC 60216	°C	180
THERMAL CONDUCTIVITY	DIN 52612	W/m.K	0.25
COEFFICIENT OF LINEAR THERMAL EXPANSION	VDE 0304	1.0E-6/K	15
MAXIMUM ALLOWABLE SERVICE TEMPERATURE			
FOR SHORT PERIODS	-	°C	-
CONTINUOUSLY	-	°C	-
MECHANICAL PROPERTIES AT 23°C ^a			
FLEXURAL STRENGTH	ISO 178	MPa	550
FLEXURAL RESISTANCE AT 150°C/1H	ISO 178	MPa	350
MODULUS OF ELASTICITY	ISO 178	MPa	24000
CHARPY IMPACT RESISTANCE - NOTCHED	ISO 179	KJ/m²	75
RESISTANCE TO FLAT COMPRESSION	ISO 604	MPa	620
FLAT COMPRESSIVE FORCE AT 23°C	ISO 604	MPa	300
FLAT COMPRESSIVE FORCE AT 200°C	ISO 604	MPa	-
TENSILE STRENGTH	ISO 527	MPa	375
CUTTING VOLTAGE	IEC 60893	MPa	30
ELECTRICAL PROPERTIES AT 23°C			
INSULATION RESISTANCE AFTER IMMERSION IN WATER	IEC 60167	Ω	1.00E+12
VOLTAGE FALL AT 90°C IN OIL	IEC 60243-1	kV	80
FLAT ELECTRIC FORCE	IEC 60243-1	kV/mm	20
RELATIVE PERMITTIVITY AT 1MHz	IEC 60250	-	4.9
DISSIPATION FACTOR AT 1MHz	IEC 60250	-	0.019
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	500
TRANSVERSE DIELECTRIC RIGIDITY AT OIL	IEC 60243-1	kV/mm	-

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