Erhard Hippe KG
Schlosserstrasse 3
03130 Spremberg

Product Data Sheet Hi- con 2000 caramel

Property	Method of test	Unit	max. or min.	Ref. Value	Test value (median)
Mechanical properties					
Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	140	A 176,86 B 145,27
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	6000	A 8646 B 6877
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	200	229,3
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m²	min.	25	A 37,62 B 34,77
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30	A 32,16 B 34,77
Tensile strength	ISO 527-4	MPa	min.	80	A 139,67 B 102,41
Electrical properties					
Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	10	11,95
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	50	60
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	10	13
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	200	300
Tracking and erosion resistance	IEC 60112	Klasse	min.		
other properties					
Thermal endurance	IEC 60216	T.I.		110	
Density	ISO 1183	g/cm³		1,3 - 1,5	1,449
Water absorption, absolute	ISO 62	mg	max.	200	168,70

Base material: Cellulosic paper
Matrix resin: Epoxy (epoxide)

RoHS- Declaration This material does not contain any substances of very high concern as listed in the EU directive 2011/65/EU, article 4, paragraph 1