

## Product data sheet Hi connect 21 ESD

Property	Method of test	Unit	max. or min.	Ref. Value	Test value (median)
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### Mechanische Eigenschaften

Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	135	179,34
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	7000	10426
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m <sup>2</sup>	min.	-	26,13
Tensile strength	ISO 527-4	MPa	min.	120	129,5

### Elektrische Eigenschaften

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.		
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.		
electrical resistance	EN ISO 3915	Ω		<b>conductive</b>	< 10 <sup>5</sup>
specific electrical resistance		Ωm			< 10 <sup>2</sup>
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.		-
Tracking and erosion resistance	IEC 60112	Klasse	min.		

### Sonstige Eigenschaften

Thermal endurance	IEC 60216	T.I.		120	
Density	ISO 1183	g/cm <sup>3</sup>		1,3 - 1,4	1,426
Water absorption, absolute	ISO 62	mg	max.	600*	113,90

Base material: Cellulose paper

\* for test specimens 50 x 50 x 4 mm

Matrix resin: Phenolic resin with a conductive additive

Test values are derived from an average type test

### 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