

## Technical material data

# Tube PF CP 21 EN 61212

HP 2065 | Laminated paper

**CARRIER:** paper strips  
**MATRIX:** phenolic resin

MECHANICAL PROPERTIES	unit	test value	norm value
flexural strength	MPa		80
tensile strength	MPa		-
compressive strength parallel to laminations	MPa		80
elasticity module bending test	MPa		-

ELECTRICAL PROPERTIES			
insulation resistance	MΩ		1
dielectric strength (1-minute test voltage) at 90°C in oil parallel to the layer direction	kV		-
dielectric strength (1-minute test voltage) at 90°C in oil perpendicular to the layer direction	kV/mm		-
tracking resistance	CTI		-

THERMAL PROPERTIES			
temperature limit	°C		(120)

OTHER PROPERTIES			
raw density	g/cm <sup>3</sup>		(1,1-1,2)
water absorption at 3 mm thickness	mg/cm <sup>2</sup>		10

### PROPERTIES

- good electrical properties at normal humidity
- temperatures up to 120°C
- good mechanical and electrical properties for general use
- good machinability
- good mechanical and electrical property levels for general use

### APPLICATIONS

- mechanical and electrical applications in the low voltage range
- spacer sleeves
- support tube for grinding rollers
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The values in ( ) are specific values which are only noted for information; they cannot be seen as a requirement of this norm. The stated values are average values which are confirmed by regular statistical tests and controls. These data are pure representative information and may only lead by an explicit agreement to an assurance for a sales agreement. Directive 2011/65/EU of European Union on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) became operative as from the 27th of January, 2011. Following substances namely are involved: lead, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers, mercury. We herewith declare that all of our products were manufactured RoHS conformal. As downstream users (i.e., as manufacturer of products), we act in accordance with European Union Regulation 1907/2006 (the REACH Regulation). According to information provided to us by our suppliers, no substances from the latest Candidate List (the List of Substances of Very High Concern, or SVHC List) from the 15th of June, 2015 exist in the materials used by us in concentrations of more than 0.1 % by mass.