

## Ketonolic® 3025 Phenolic Cotton Cloth Laminated Sheet/Rod Properties Data Sheet

### ① Raw material description

<b>Standard Grade:</b>	Laminated grade	<b>Appearance color:</b>	---
<b>Applications:</b>	Processing material, sheet, board, rod. Widely used in as the structural components with a certain mechanical performance and electric performance for machinery, electric engine and electric equipment.		
<b>Remarks:</b>	Property: with superior mechanical property and dielectrical property.		

### ② Raw material technical datasheet

Property item	Test conditions	Testing method	Testing data	Unit
<b>I. Physical property</b>				
<b>Density</b>	---	GB/T5130	1.3-1.4	g/cm <sup>3</sup>
<b>Water absorption</b>	0.8mm < d ≤ 3.0mm	GB/T5130	≤ 380	mg
	2.0mm < d ≤ 3.0mm		≤ 450	
	3mm < d ≤ 20mm		≤ 600	
<b>II. Mechanical property</b>				
<b>Tensile strength</b>	---	GB/T5130	≥ 80	MPa
<b>Bending strength - vertical</b>	---	GB/T5130	≥ 50	MPa
<b>Shear strength - Parallel</b>	---	GB/T5130	≥ 25	MPa
<b>Compression strength - parallel</b>	simply supported beam, notch specimen	GB/T5130	≥ 8	kJ/m <sup>2</sup>
<b>Compression strength - parallel</b>	cantilever beam, notch specimen	GB/T5130	≥ 4	kJ/m <sup>2</sup>
<b>Adhesive strength</b>	---	GB/T5131	≥ 5390	N
<b>Hardness- shore D</b>	---	DIN 53505	90	D
<b>III. Thermal property</b>				
<b>Max. working temperature(long time)</b>	---	UL746B	140	°C
<b>IV. Electrical property</b>				
<b>Insulation resistance after immersion</b>	---	GB/T5130	≥ 1 × 10 <sup>7</sup>	Ω
<b>Vertical electric strength</b>	0.8mm put in the transformer oil for 90 ± 2°C	GB/T5130	≥ 0.89	MV/m
	1.8mm put in the transformer oil for 90 ± 2°C	GB/T5130	≥ 0.69	MV/m
	2.0mm put in the transformer oil for 90 ± 2°C	GB/T5130	≥ 0.65	MV/m
	3.0mm put in the transformer oil for 90 ± 2°C	GB/T5130	≥ 0.50	MV/m
<b>Parallel breakdown voltage</b>	put in the transformer oil for 90 ± 2°C	GB/T5130	≥ 2	kV

NOTE: 1 g/cm<sup>3</sup> = 1,000 kg/m<sup>3</sup>, 1 Mpa = 1 N/mm<sup>2</sup>, 1kV/mm = 1 MV/m

Statement:

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Quanda will not provide any legally binding guarantee of certain properties, or any suitability.