



**Engineering  
Plastics**

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# Typical Properties Data Sheet

The Supplier of Engineering Plastics  
Rods, Sheets, Tubes, Profiles and Machining Parts

## Ketonolic® 3240 Epoxy Fiber Glass Laminated Sheet Properties Data Sheet

① Raw material description				
<b>Standard Grade:</b>	Laminated grade	<b>Appearance color:</b>	---	
<b>Applications:</b>	Processing materials, sheet, board. It has applicable as insulation structural components for electromechanical/electrical equipment, generators, high and low voltage distribution box, jigs, electrical machine.			
<b>Remarks:</b>	Characteristics: With superior mechanical property and dielectrical property, as well as used under damp environmental conditions and transformer oil.			
② Raw material technical datasheet				
Property item	Test conditions	Testing method	Testing data	Unit
I. Physical property				
Density	---	GB/T5130	1.70-1.90	g/cm <sup>3</sup>
Shrinkage	---	---	<2	%
Water absorption	1mm	GB/T5130	≤18	mg
	5mm	GB/T5130	≤25	
	25mm	GB/T5130	≤61	
	processing to 22.5 on one side	GB/T5130	≤73	
II. Mechanical property				
Tensile strength	---	GB/T5130	≥300	MPa
Vertical flexure strength	---	GB/T5130	≥340	MPa
Vertical compression strength	---	GB/T5130	≥350	MPa
Charpy impact strength	---	GB/T5130	≥33	kJ/m <sup>3</sup>
III. Thermal property				
Thermal deformation temperature	---	GB/T1634	180-220	°C
IV. Electrical property				
Dielectric constant	1MHz	GB/T5130	≤5.5	10 <sup>6</sup> Hz
Dielectric loss angle tangent	1MHz	GB/T5130	≤0.04	10 <sup>6</sup> Hz
Insulation resistance after immersion	---	GB/T5130	≥5.0×10 <sup>8</sup>	Ω
Vertical electric strength	0.4mm put in the transformer oil for 90 ± 2 °C	GB/T5130	≥16.9	kV/mm
	1.4mm put in the transformer oil for 90 ± 2 °C	GB/T5130	≥13.2	kV/mm
	2.0mm put in the transformer oil for 90 ± 2 °C	GB/T5130	≥11.8	kV/mm
	3.0mm put in the transformer oil for 90 ± 2 °C	GB/T5130	≥10.2	kV/mm
Parallel breakdown voltage	put in the transformer oil for 90 ± 2 °C	GB/T5130	≥35	kV
<b>NOTE:</b> 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				
<b>Statement:</b>				
<b>NOTE:</b> 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.				