



**Engineering
Plastics**

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Typical Properties Data Sheet

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

Ketonolic® 3640 Epoxy Fiber Glass Laminated Tube Properties Data Sheet

① Raw material description

Standard Grade:	Laminated grade	Appearance color:	---
Application:	Processing materials, tube, rod, chemical machine componets, general machine componets,jigs, insulation structure componets		
Remarks:	Property: With suprior machenical 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 ³
Water absorption	1mm	GB/T5130	≦ 18	mg
	5mm	GB/T5130	≦ 25	
	25mm	GB/T5130	≦ 61	
II. Mechanical property				
Tensile strength	---	GB/T5130	≧ 300	MPa
Impact strength	Simply supported beam	GB/T5130	≧ 33	KJ/m ³
Vertical flexure strength	---	GB/T5130	≧ 340	Mpa
Vertical compression strength	---	GB/T5130	≧ 350	Mpa
Hardness - Shore D	---	DIN 53505	≧ 92	D
III. Thermal property				
IV. Electrical property				
Dielectric constant	---	GB/T5130	≦ 5.5	10 ⁶ Hz
Dielectric loss angle tangent	---	GB/T5130	≦ 0.04	10 ⁶ Hz
Insulation resistance after immersion	---	GB/T5130	≧ 5.0 × 10 ⁸	(Ω)
Vertical electric strength	1.5mm put in the transformer oil for 90 ± 2°C for 5min	GB/T5130	7 (ID6-25MM) /12 (ID up to 26MM)	kV
	2.0mm put in the transformer oil for 90 ± 2°C for 5min	GB/T5130	10 (ID 6-25MM) /14 (ID up to 26MM)	kV
	2.5mm put in the transformer oil for 90 ± 2°C for 5min	GB/T5130	13 (ID 6-25MM) /16 (ID up to 26MM)	kV
	3.0mm put in the transformer oil for 90 ± 2°C for 5min	GB/T5130	15 (ID 6-25MM) /18 (ID up to 26MM)	kV
Parallel breakdown voltage	put in the transformer oil for 90 ± 2°C	GB/T5130	≧ 35	kV
Surface voltage resistance (wet)	Voltage resistance for 1 min(at ordinary pressure)	GB/T5130	12	kV

NOTE: 1 g/cm³ = 1,000 kg/m³, 1 Mpa = 1 N/mm², 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.