



**Engineering  
Plastics**

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# Typical Properties Data Sheet

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

## Ketonolic®GPO-3 Technical Property Data Sheet

### ①raw materials description

<b>Standard grade:</b>	Laminated grade	<b>Appearance colors:</b>	Red/white/red-brown
<b>Application:</b>	Processing material , plate, groove, angular, square tube, square bar, pipe, round bar, power supply type, circuit breakers, motors, switch device, arc-resistant structural parts, insulating supports.		
<b>Characteristics:</b>	High pressure resistance & leakage resistance,flame-retardant,excellent arc resistance		

### ②raw properties data

Property item	Test conditions(status)	Test methods	Test data	Unit
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#### I.Physical properties

<b>Density</b>	---	IEC 60893-2:2003	1.95-2.05	g/cm <sup>3</sup>
<b>Water absorption</b>	---	ISO62:2008	≤0.5	%
<b>Flammability class</b>	≥3.2mm	IEC 60893-2:2003 UL-94	V0	Class

#### II .Mechanical properties

<b>Tensile strength</b>	<b>Breaking load</b>	---	IEC 60893-2:2003	≥130	Mpa
<b>Compression strength</b>		---	IEC 60893-2:2003	≥300	Mpa
<b>Vertical bending strength</b>		---	IEC 60893-2:2003	≥160	Mpa
<b>Impact strength</b>		---	IEC 60893-2:2003	≥60	kJ/m <sup>2</sup>
<b>Hardness-Shore D</b>		---	DIN 53505	90	D

#### III. Thermal properties

<b>Temperature index</b>	---	IEC 60085-2004	155	°C
<b>Oxygen index</b>	---	ISO4589-2:1996	≥30	%O <sub>2</sub>
<b>Max.working temperature-long time</b>	---	---	>155	°C
<b>Coefficient of the thermal expansion</b>	---	ASTME 228-11	≤2x10 <sup>-5</sup>	1/K

#### IV.Electrical properties

<b>Dielectric constant</b>	---	IEC 60893-2:2003	4.0-5.0	---
<b>Dielectric loss factor</b>	---	IEC 60893-2:2003	≤0.03	---
<b>Electrical resistance index mark</b>	---	IEC 60893-2:2003	≥600	---
<b>Arc resistance</b>	---	IEC 61621: 1997	≥180	sec
<b>Parallel layer direction Breakdown voltage</b>	3.2mm	IEC 60893-2:2003	≥80	kv/25mm
<b>Vertical layer direction electric strength</b>	---	IEC 60893-2:2003	≥12	kv/mm
<b>Volume resistivity</b>	---	IEC 60893-1980	≥1.0x10 <sup>10</sup>	Ω*M
<b>Surface resistivity</b>	---	IEC 60893-1980	≥1.0x10 <sup>12</sup>	Ω

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.