



# 青 岛 市 采 田 工 业 材 料 有 限 公 司

## Qingdao Caitian Industrial Materials Co., Ltd

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### TECHNICAL DATA SHEET

**PRODUCT:** Black Enamel for Tempered Glass 4706T-P8

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**APPLICATION:**

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This enamel is suitable for home appliance glass, architectural glass, furniture glass.

**Product Characteristics:**

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<b>Color (Humter ER20)</b>	<b>Black (<math>\Delta E=0.15</math>)</b>
<b>Fired surface appearance</b>	<b>Glossy</b>
<b>Solid content</b>	<b>86.2%</b>
<b>Fineness of grind</b>	<b>&lt; 5<math>\mu</math>m</b>
<b>Thermal expansion coefficient</b>	<b>( 85 ~ 95 ) <math>\times 10^{-7}/K</math> (50-300 °C)</b>
<b>Softening point</b>	<b>680°C~720°C</b>
<b>Density</b>	<b>4.5<math>\pm</math>0.5 g/cm<sup>3</sup></b>
<b>Odour</b>	<b>Almost no odour</b>
<b>Viscosity (25°C, NDJ79 viscometer)</b>	<b>350<math>\pm</math>50 dPa.s</b>
<b>Shelf life (Unopened Store at 5-25°C)</b>	<b>12 months</b>

**Chemical Resistance:**

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**Alkali Resistance:**

According to ASTM C724-1991

Soaked in 10% NaOH 10-15min, no sharp trace on the surface.

**Acid Resistance:**

According to ASTM C724-1991,

Soaked in 3.5% HCl 10-15min, no sharp trace on the surface.

## Application Parameter:

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<b>Printing room temperature</b>	<b>23-27°C</b>
<b>Room humidity</b>	<b>40-60%</b>
<b>Silk screen</b>	<b>72-100T</b>
<b>Wet film thickness</b>	<b>30-40μm</b>
<b>Drying conditions (IR)</b>	<b>150°C/5min</b>
<b>Firing conditions</b>	<b>650-720°C/3-8min</b>
<b>Mixing conditions</b>	<b>Enamel: Thinner=3%-8%</b>
<b>Thinner</b>	<b>8008-2</b>