



# 青 岛 市 采 田 工 业 材 料 有 限 公 司

## Qingdao Caitian Industrial Materials Co., Ltd

No. 710 Tongxing Road, Laoshan District, Qingdao City, China 266100  
TEL: +86 532 87892071 FAX: +86 532 67782830 EMAIL: info@qdcaitian.com.cn

### TECHNICAL DATA SHEET

**PRODUCT: White Enamel for Tempered Glass 4310P8**

---

#### APPLICATION:

---

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

#### Product Characteristics:

---

Color (Humter ER20)	White ( $\Delta E=0.42$ )
Fired surface appearance	Glossy
Solid content	82%
Fineness of grind	< 5 $\mu$ m
Thermal expansion coefficient	( 85 ~ 95 ) $\times 10^{-7}/K$ (50-300 $^{\circ}C$ )
Softening point	680 $^{\circ}C$ ~720 $^{\circ}C$
Density	4.5 $\pm$ 0.5 g/cm <sup>3</sup>
Optical Density (wet film 25um)	2.7 OD
Viscosity (25 $^{\circ}C$ , NDJ79 viscometer)	350 $\pm$ 50 dPa.s
Shelf life (Unopened Store at 5-25 $^{\circ}C$ )	12 months

#### Chemical Resistance:

---

##### 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:

---

<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/8-3min</b>
<b>Mixing conditions</b>	<b>Enamel: Thinner=3%-8%</b>
<b>Thinner</b>	<b>8008</b>