



# **HOWREN SILICONES**

| Color Masterbatch &  
| Color Paste Catalogue



**Howren Trading Co., Ltd**

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# **INDEX**

|                                                             |           |
|-------------------------------------------------------------|-----------|
| <i>ABOUT HOWREN SILICONES .....</i>                         | <i>02</i> |
| <i>ABOUT PROPERTIES .....</i>                               | <i>03</i> |
| <i>GENERAL COLOR MASTERBATCH &amp; PROPERTIES .....</i>     | <i>04</i> |
| <i>FLUORESCENT COLOR MASTERBATCH &amp; PROPERTIES .....</i> | <i>06</i> |
| <i>COLOR PASTE &amp; PROPERTIES .....</i>                   | <i>07</i> |
| <i>BRANCH OFFICES .....</i>                                 | <i>08</i> |



***Part of your life***

## **Introduction**

Howren Trading Co., Ltd., a professional manufacturer and distributor of silicone raw materials and specialty chemicals, was founded in 1970. As a leading supplier of chemical products in Asia as well as developing our own brand - **HOWREN SILICONES** (HR), we could develop suitable materials for customer, and satisfy all demands of product specifications and processing conditions via our professional technology and experience.

We are an expert in making color masterbatch and color paste. There are standard color and customized color options available for your selection. We can also design and produce series of silicone pigments with excellent heat and light fastness properties, and rarely color migration.

## **Color Masterbatch**

We provide the general color masterbatch and fluorescent color masterbatch with premium properties of dispersion, colorability, and odorless, which can be applied to solid silicone rubber (HTV/HCR).

## **Color Paste**

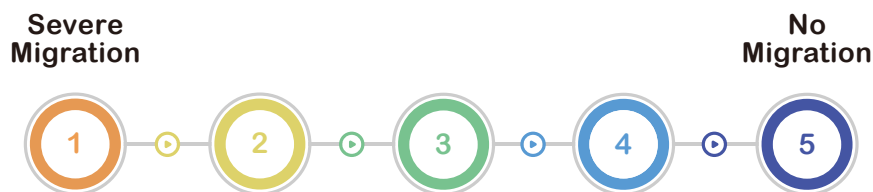
Color paste is suitable for liquid silicone rubber, and offers superior color density and saturation, which has good dispersion and compatibility when mixed with silicone rubber.

**Note:** Color depth & sharpness can be adjusted by self-modifying the adding ratio according to your preference.

## PROPERTIES

### Migration Fastness (1-5)

The purpose of this test is to make sure whether the color migrates during the manufacturing process. The test result is presented by 5-level scale where 5 refers to no migration, and 1 refers to severe migration.

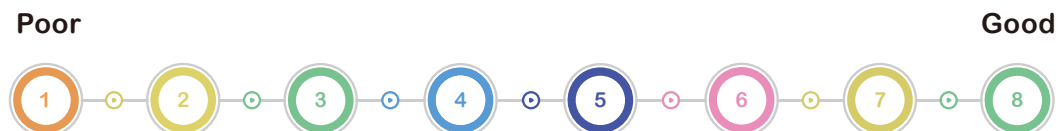


### Heat Resistance (°C)

We measure the heat resistance of color masterbatch by using 100:1 ratio mixture baking at 200 °C in four-hours, and check the color changing in comparison with the original sample to conclude the degree of heat resistance.

### Light Fastness (1-8)

The full shade is tested without TiO<sub>2</sub> in the same pigment concentration. The performance is monitored by 8 levels with 8 refers to good and 1 refers to poor light fastness.



**Note:** The information corresponds to the present state of our knowledge. We assume no liability with any use of this information and recommend customers to conduct their own tests under the relevant working conditions before use. All data are advised to be confirmed by testing under actual conditions of use.

## General Color Masterbatch & Properties

| Color<br>顏色                                                                         | Product<br>Number<br>型號 | Product<br>Name<br>品名      | Migration<br>Fastness<br>色遷移 | Heat<br>Resistance<br>耐熱性 | Light<br>Fastness<br>耐光色牢度 | Chemical<br>Structure<br>化學結構 |
|-------------------------------------------------------------------------------------|-------------------------|----------------------------|------------------------------|---------------------------|----------------------------|-------------------------------|
|    | HR-1001                 | Rose Red<br>玫瑰紅            | 4                            | 180~200°C                 | 5-6                        | Organic                       |
|    | HR-1100                 | Red<br>紅色                  | 4                            | 180~200°C                 | 6-7                        | Organic                       |
|    | HR-2109                 | Ruby<br>鮮紅色                | 4                            | 180~200°C                 | 6-7                        | Organic                       |
|    | HR-1106                 | Dark Red<br>暗紅色            | 4                            | 200°C                     | 6-7                        | Organic                       |
|    | HR-1701                 | Purplish Red<br>紫紅色        | 4                            | 200°C                     | 7-8                        | Organic                       |
|    | HR-3201                 | Orange<br>橘色               | 4                            | 150~200°C                 | 5-6                        | Organic                       |
|  | HR-3150                 | Light Orange<br>淺桔黃        | 4                            | 150~200°C                 | 5-6                        | Organic                       |
|  | HR-3151                 | Yellow<br>黃色               | 4                            | 150~200°C                 | 5-6                        | Organic                       |
|  | HR-2329                 | Bright Yellow<br>亮黃色       | 4                            | 150~200°C                 | 7-8                        | Inorganic                     |
|  | HR-2330                 | Chrome Yellow<br>鉻黃        | 4                            | 150~200°C                 | 7-8                        | Inorganic                     |
|  | HR-2340                 | Champagne<br>Yellow<br>香檳黃 | 4                            | 150~200°C                 | 7-8                        | Inorganic                     |
|  | HR-1602                 | Khaki<br>卡其色               | 5                            | 200°C                     | 7-8                        | Inorganic                     |
|  | HR-3812                 | Tan<br>土珠色                 | 5                            | 200°C                     | 7-8                        | Inorganic                     |



**HOWREN SILICONES**

## General Color Masterbatch & Properties

| Color<br>顏色                                                                         | Product<br>Number<br>型號 | Product<br>Name<br>名品   | Migration<br>Fastness<br>色遷移 | Heat<br>Resistance<br>耐熱性 | Light<br>Fastness<br>耐光色牢度 | Chemical<br>Structure<br>化學結構 |
|-------------------------------------------------------------------------------------|-------------------------|-------------------------|------------------------------|---------------------------|----------------------------|-------------------------------|
|    | HR-1400                 | Green<br>綠色             | 4                            | 200°C                     | 5-6                        | Organic                       |
|    | HR-1430                 | Grass Green<br>草綠色      | 5                            | 200°C                     | 7-8                        | Inorganic                     |
|    | HR-1528                 | Classic Blue<br>經典藍     | 4                            | 150~200°C                 | 5-6                        | Organic                       |
|    | HR-1512                 | Acid Navy Blue<br>天青耐酸藍 | 4                            | 200°C                     | 7-8                        | Inorganic                     |
|    | HR-1520                 | Navy Blue<br>天青藍        | 4                            | 200°C                     | 7-8                        | Inorganic                     |
|    | HR-1521                 | Ultramarine<br>極濃海藍     | 4                            | 200°C                     | 7-8                        | Inorganic                     |
|  | HR-2383                 | Brilliant Violet<br>紫色  | 4                            | 150~200°C                 | 5-6                        | Organic                       |
|  | HR-1924                 | White<br>白色             | 5                            | 200°C                     | 7-8                        | Inorganic                     |
|  | HR-1801                 | Black<br>黑色             | 5                            | 200°C                     | 7-8                        | Inorganic                     |
|  | HR-6802                 | Dark Gray<br>深灰色        | 5                            | 200°C                     | 7-8                        | Inorganic                     |
|  | HR-6803                 | Light Gray<br>淺灰色       | 5                            | 200°C                     | 7-8                        | Inorganic                     |



**HOWREN SILICONES**

## Fluorescent Color Masterbatch & Properties

| Color<br>顏色                                                                         | Product<br>Number<br>型號 | Product<br>Name<br>品名   | Migration<br>Fastness<br>色遷移 | Heat<br>Resistance<br>耐熱性 | Light<br>Fastness<br>耐光色牢度 | Chemical<br>Structure<br>化學結構 |
|-------------------------------------------------------------------------------------|-------------------------|-------------------------|------------------------------|---------------------------|----------------------------|-------------------------------|
|    | HR-1201                 | F. Phloxine<br>螢光紅      | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|    | HR-1721                 | F. Darkmagenta<br>螢光玫瑰紫 | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|    | HR-1722                 | F. Magenta<br>螢光玫瑰紅     | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|    | HR-1202                 | F. Pink<br>螢光粉紅         | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|    | HR-1241                 | F. Orange<br>螢光橘        | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|    | HR-1341                 | F. Yellow<br>螢光黃        | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|   | HR-1441                 | F. Green<br>螢光綠         | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|  | HR-1531                 | F. Blue<br>螢光藍          | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |
|  | HR-1741                 | F. Purple<br>螢光紫        | 4                            | 150~200°C                 | 5-6                        | Inorganic                     |



**HOWREN SILICONES**

## Color Paste & Properties

| Color<br>顏色                                                                         | Product<br>Number<br>型號 | Product<br>Name<br>名品 | Migration<br>Fastness<br>色遷移 | Heat<br>Resistance<br>耐熱性 | Light<br>Fastness<br>耐光色牢度 | Chemical<br>Structure<br>化學結構 |
|-------------------------------------------------------------------------------------|-------------------------|-----------------------|------------------------------|---------------------------|----------------------------|-------------------------------|
|    | HR-CLR-R02              | Red<br>紅色色膏           | 4                            | 120~150°C                 | 5-6                        | Organic                       |
|    | HR-CLR-O01              | Orange<br>橘色色膏        | 4                            | 120~150°C                 | 4-5                        | Organic                       |
|    | HR-CLR-Y02              | Yellow<br>黃色色膏        | 4                            | 120~150°C                 | 4-5                        | Organic                       |
|    | HR-CLR-Y14              | Chrome Yellow<br>鉻黃色膏 | 4                            | 120~150°C                 | 7-8                        | Inorganic                     |
|    | HR-CLR-G02              | Green<br>綠色色膏         | 4                            | 120~150°C                 | 5-6                        | Organic                       |
|    | HR-CLR-L02              | Blue<br>藍色色膏          | 4                            | 120~150°C                 | 5-6                        | Inorganic                     |
|  | HR-CLR-L03              | Navy Blue<br>深藍色色膏    | 4                            | 120~150°C                 | 5-6                        | Inorganic                     |
|  | HR-CLR-W02              | White<br>白色色膏         | 4                            | 120~150°C                 | 5-6                        | Inorganic                     |
|  | HR-CLR-B02              | Black<br>黑色色膏         | 4                            | 120~150°C                 | 5-6                        | Inorganic                     |



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