

**GOKUL EXIMP**

( STAR EXPORT HOUSE )

AN ISO 9001 CERTIFIED COMPANY

25-A Juhu Supreme Shopping Center, Gulmohar Cross Road No. 9, JVPD Scheme, Mumbai 400049, India

Phone: +91-22-66923698, 66997369 Mobile : +91-9820024339 (Naveen) / 9920459697 (Rohit)

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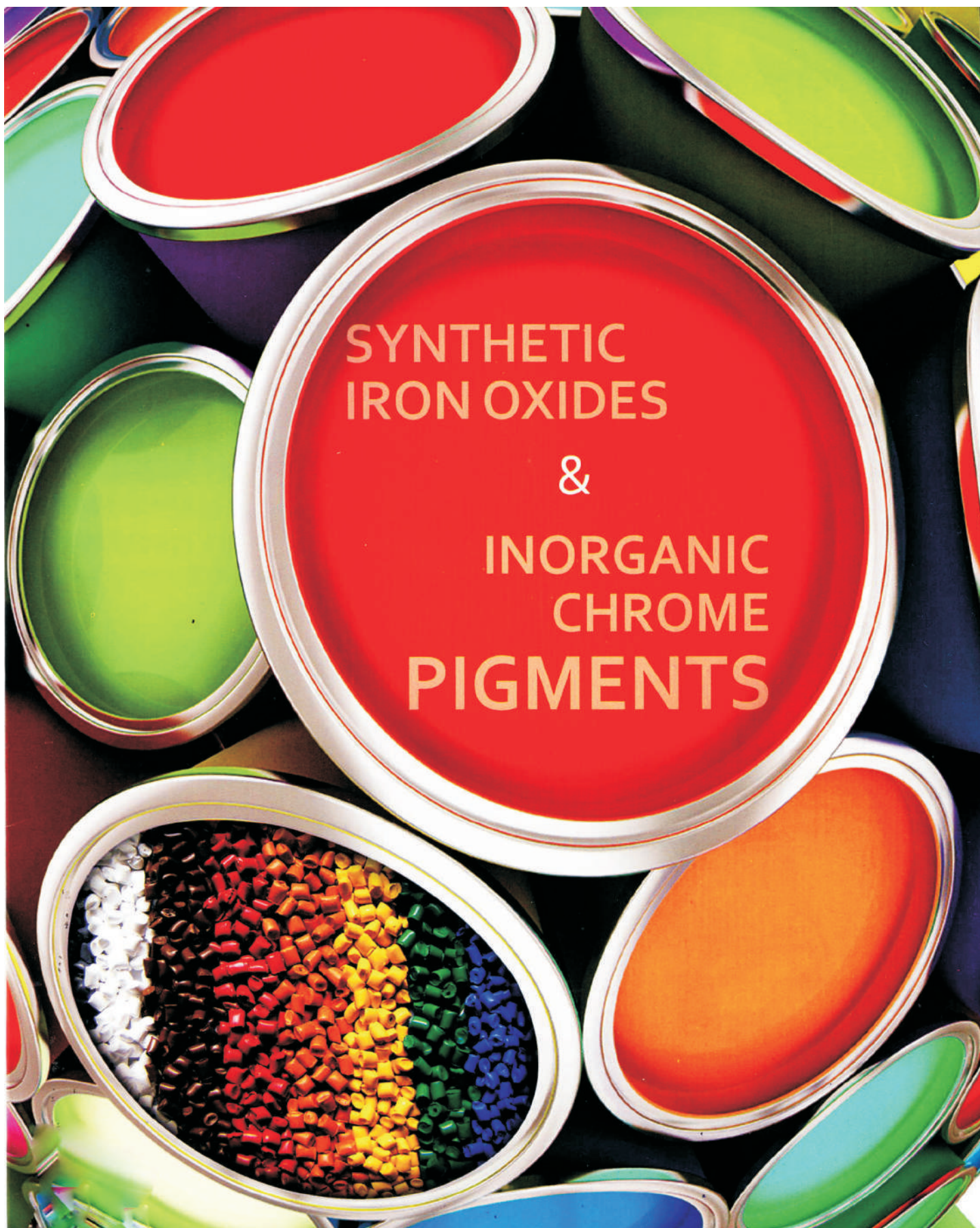
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SYNTHETIC  
IRON OXIDES

&

INORGANIC  
CHROME  
PIGMENTS

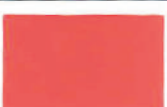
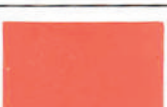
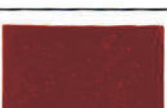


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| <br><b>GOKUL EXIMP</b> | Product Code | MASS TONE                                                                           | TINT TONE<br>1:5 TiO <sub>2</sub>                                                   | Colour Index | Oil Absorption | Specific Gravity | pH Value | Iron as Fe <sub>2</sub> O <sub>3</sub> % min | Moisture and Volatile matter at 120° C max, % | 44 micron residue on sieve max, % | Matter soluble water max, % |
|---------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|----------------|------------------|----------|----------------------------------------------|-----------------------------------------------|-----------------------------------|-----------------------------|
| Synthetic Yellow Oxide<br>PY 42                                                                         | 813          |    |    | 77492        | 25-40          | 4.0              | 3-7      | 85.00                                        | 1.0                                           | 0.05                              | 0.5                         |
| Synthetic Yellow Oxide<br>PY 42                                                                         | 814          |    |    | 77492        | 25-40          | 4.0              | 3-7      | 85.00                                        | 1.0                                           | 0.05                              | 0.5                         |
| Synthetic Yellow Oxide<br>PY 42                                                                         | 910          |  |  | 77492        | 25-40          | 4.0              | 3-7      | 85.00                                        | 1.0                                           | 0.05                              | 0.5                         |
| Synthetic Yellow Oxide<br>PY 42                                                                         | 920          |  |  | 77492        | 25-40          | 4.0              | 3-7      | 85.00                                        | 1.0                                           | 0.05                              | 0.5                         |
| Synthetic Red Oxide<br>PR 101                                                                           | 110R         |  |  | 77491        | 15-25          | 5.0              | 4-8      | 95.00                                        | 1.0                                           | 0.5                               | 0.5                         |
| Synthetic Red Oxide<br>PR 101                                                                           | 130R         |  |  | 77491        | 15-25          | 5.0              | 4-8      | 95.00                                        | 1.0                                           | 0.5                               | 0.5                         |
| Synthetic Red Oxide<br>PR 101                                                                           | 140          |  |  | 77491        | 15-25          | 4.5              | 4-8      | 95.00                                        | 1.0                                           | 0.5                               | 0.5                         |
| Synthetic Red Oxide<br>PR 101                                                                           | 145          |  |  | 77491        | 15-25          | 4.5              | 5-7      | 95.00                                        | 1.0                                           | 0.5                               | 0.5                         |
| Synthetic Red Oxide<br>PR 101                                                                           | 160R         |  |  | 77491        | 15-25          | 5.0              | 4-8      | 95.00                                        | 1.0                                           | 0.5                               | 0.5                         |
| Synthetic Red Oxide<br>PR 101                                                                           | 173          |  |  | 77491        | 15-25          | 5.0              | 5-7      | 95.00                                        | 1.0                                           | 0.5                               | 0.5                         |

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| <br><b>GOKUL<br/>EXIMP</b> | Product Code | MASS TONE                                                                           | TINT TONE<br>1:5 TiO <sub>2</sub>                                                   | Colour Index | Oil Absorption | Specific Gravity | pH Value | Iron as Fe <sub>2</sub> O <sub>3</sub> % min | Moisture and Volatile<br>matter at 120° C max, % | 44 micron residue<br>on sieve max, % | Matter soluble<br>water max, % |
|-------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|----------------|------------------|----------|----------------------------------------------|--------------------------------------------------|--------------------------------------|--------------------------------|
| Synthetic<br>Red Oxide<br>PR 101                                                                            | 180R         |    |    | 77491        | 15-25          | 5.0              | 4-8      | 95.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Red Oxide<br>PR 101                                                                            | 222R         |   |   | 77491        | 15-25          | 5.0              | 4-8      | 95.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Red Oxide<br>PR 101                                                                            | 273          |  |  | 77491        | 20-30          | 4.5              | 4-8      | 95.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Red Oxide<br>PR 101                                                                            | 960R         |  |  | 77491        | 25-40          | 4.3              | 4-7      | 88.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Red Oxide<br>PR 101                                                                            | 3097         |  |  | 77491        | 15-25          | 5.0              | 4-8      | 95.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Red Oxide<br>PR 101                                                                            | 8097         |  |  | 77491        | 15-25          | 5.0              | 4-8      | 95.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Black Oxide<br>PB 11                                                                           | 750          |  |  | 77499        | 15-30          | 4.5              | 4-8      | 94.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Black Oxide<br>PB 11                                                                           | 722          |  |  | 77499        | 15-25          | 5.0              | 4-8      | 94.00                                        | 1.0                                              | 0.5                                  | 0.5                            |
| Synthetic<br>Black Oxide<br>PB 11                                                                           | 318          |  |  | 77499        | 15-25          | 5.0              | 4-8      | 94.00                                        | 1.0                                              | 0.5                                  | 0.5                            |

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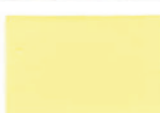
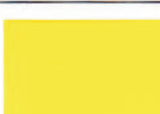
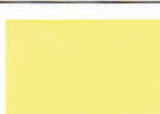
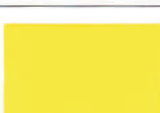
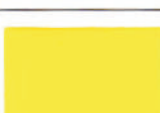
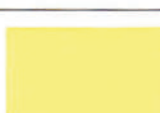
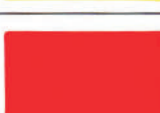
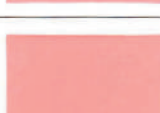
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## CHROME PIGMENTS - TECHNICAL SPECIFICATIONS

| <div></div> <div>GOKUL<br/>EXIMP</div> | Product Code | MASS TONE                                                                           | TINT TONE<br>1:5 TiO <sub>2</sub>                                                   |              |                |                     |                  |                     |                           |       |            |               |                  | Bleeding Resistance<br>(1-5 Scale) |                     |                |                | Resistance to  |                 |              |                           | Application  |          |                        |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|----------------|---------------------|------------------|---------------------|---------------------------|-------|------------|---------------|------------------|------------------------------------|---------------------|----------------|----------------|----------------|-----------------|--------------|---------------------------|--------------|----------|------------------------|--|--|--|--|
|                                                                                                                         |              |                                                                                     |                                                                                     | Colour Index | Oil Absorption | Moisture Content, % | Specific Gravity | Bulk Density Gms/CC | Residue on Sieve 320 Mesh | Water | Acid (HCL) | Alkali (NaOH) | 5% Soap Solution | Light                              |                     | Heat           |                | Air Dry Enamel | Stoving Enamels | N.C. Lacquer | Offset / Letter press Ink | Liquid Links | Plastics | PVC Leather / Linoleum |  |  |  |  |
|                                                                                                                         |              |                                                                                     |                                                                                     |              |                |                     |                  |                     |                           |       |            |               |                  | Light (1-8) Scale                  | Heat 180° C/30 mins | 220° C/20 mins | 250° C/10 mins |                |                 |              |                           |              |          |                        |  |  |  |  |
| Prime Rose Chrome<br>PY 34                                                                                              | 101          |    |    | 77603        | 29             | <1                  | 5.6              | 0.98                | 0.5%                      | 5     | 3          | 1             | 3                | 6                                  | 5                   | 5              | 5              | 0              | 0               | 0            | 0                         | 0            | *        | *                      |  |  |  |  |
| Lemon Chrome<br>PY 34                                                                                                   | 122          |    |    | 77603        | 26             | <1                  | 5.0              | 0.78                | 0.5%                      | 5     | 3          | 3             | 3                | 6                                  | 5                   | 5              | 4              | 0              | 0               | 0            | 0                         | 0            | 0        | 0                      |  |  |  |  |
| Lemon Chrome<br>PY 34                                                                                                   | 120          |   |   | 77603        | 26             | <1                  | 5.0              | 0.78                | 0.5%                      | 5     | 3          | 3             | 3                | 6                                  | 5                   | 5              | 4              | 0              | 0               | 0            | 0                         | 0            | 0        | 0                      |  |  |  |  |
| Middle Chrome<br>PY 34                                                                                                  | 138          |  |  | 77603        | 29             | <1                  | 5.5              | 0.8                 | 0.5%                      | 5     | 3          | 3             | 3                | 6-7                                | 5                   | 4              | 3              | 0              | 0               | 0            | 0                         | 0            | 0        | 0                      |  |  |  |  |
| Middle Chrome<br>PY 34                                                                                                  | 130          |  |  | 77603        | 29             | <1                  | 5.5              | 0.8                 | 0.5%                      | 5     | 3          | 3             | 3                | 6-7                                | 5                   | 4              | 3              | 0              | 0               | 0            | 0                         | 0            | 0        | 0                      |  |  |  |  |
| Middle Chrome<br>PY 34                                                                                                  | 132          |  |  | 77603        | 29             | <1                  | 5.5              | 0.8                 | 0.5%                      | 5     | 3          | 3             | 3                | 6-7                                | 5                   | 4              | 3              | 0              | 0               | 0            | 0                         | 0            | 0        | 0                      |  |  |  |  |
| Scarlet Chrome<br>PR 104                                                                                                | 475          |  |  | 77605        | 20             | <1                  | 6.5              | 1.0                 | 0.5%                      | 5     | 3          | 3             | 3                | 6-7                                | 5                   | 4              | 3              | 0              | 0               | 0            | 0                         | 0            | 0        | 0                      |  |  |  |  |
| Scarlet Chrome<br>PR 104                                                                                                | 470          |  |  | 77605        | 20             | <1                  | 6.5              | 1.0                 | 0.5%                      | 5     | 3          | 3             | 3                | 6-7                                | 5                   | 4              | 3              | 0              | 0               | 0            | 0                         | 0            | 0        | 0                      |  |  |  |  |
| Scarlet Chrome (H.T.)<br>PR 104                                                                                         | 493          |  |  | 77605        | 22             | <1                  | 5.9              | 0.9                 | 0.5%                      | 5     | 3          | 3             | 3                | 6-7                                | 5                   | 5              | 5              | 0              | 0               | 0            | *                         | *            | 0        | 0                      |  |  |  |  |

**Bleeding Scale**  
(1-5)  
5 - No Bleed  
1 - Bleeding

**Light Fastness**  
Scale 1-8 as per  
Blue Wool Scale

**Heat Resistance**  
(1-5)  
1 - Colour Change  
5 - No Colour Change

**Application**  
0 - Application  
\* - Limited Application  
X - Not Application

No bleeding in Ethyl Alcohol,  
Butyl Acetate, White Spirit,  
Xylene, M.E.K., Linseed Oil,  
DCO, DOP/DBP.

NOTE: The analysis values & datas are merely indication & given in good faith are not warranted.

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## HEUBACH GmBH RANGE

**EXTRA HIGH PERFORMANCE:** 6 fine layers of metal oxide shells form a nearly perfect encapsulation around each pigment particle and lead to unmatched resistance to light, weather and  $SO_2$ , which qualifies these pigments for top industrial, automotive, powder and plastic applications. The 6 fold shells around each pigment particle acts as an effective barrier against the leaching of bio-available lead, thereby reducing the health-risks of using these pigments.

**HIGH PERFORMANCE:** The high performance line offers an optimal value in use. 3 - 4 highly effective layers around the pigment core provide substantially more protection against light, weather and heat when compared with standard chromate pigments.

For only a little more money those pigments qualify as colourants for high quality plastic concentrates, industrial coatings, laminates and even entry level automotive.

**STANDARD SERIES:** Different from most of the standard chrome yellows found in the market, these pigments are protected by 2 sophisticated layers of metal oxides, which move lightfastness upto 6-7 level. These pigments are recommended wherever the utmost quality of the High Performance and Extra-High-Performance-series is not necessary and where good quality must be matched with reasonable pricing.

Like all other Heubach lines our Standard Line Chrome Yellows are cowles dispersible and do not require sandmilling in order to reach optimal gloss and strength.

|                              | Extra High Performance |       |       |       | High Performance |        |        | Standard Series |         |         |
|------------------------------|------------------------|-------|-------|-------|------------------|--------|--------|-----------------|---------|---------|
| Physical Data                | 5 SN                   | 13 SN | 22 SN | 23 SN | 123 SN           | 220 SN | 230 SN | 1060 SN         | 1064 SN | 1070 SN |
| Bulk Volume $cm^3/g$         | 2.1                    | 2.5   | 1.5   | 1.4   | 2.5              | 1.6    | 1.8    | 2.7             | 2.3     | 3.7     |
| Specific gravity $g/cm^3$    | 5.6                    | 5.6   | 5.7   | 5.7   | 5.6              | 5.4    | 5.5    | 5.5             | 5.5     | 5.4     |
| Oil Absorption $g/100g$      | 27                     | 27    | 23    | 24    | 27               | 26     | 27     | 23              | 21      | 26      |
| rel.Hiding Power vs. $TiO_2$ | 114                    | 89    | 234   | 220   | 87               | 247    | 247    | 47              | 52      | 95      |
| pH-Value                     | 6-8                    | 6-8   | 5-7   | 5-7   | 6-8              | 5-7    | 5-7    | 5-7             | 5-7     | 5-7     |
| Acid Sol. Lead cont. %       | <2.5                   | <3    | <2    | <2    | <5               | <4     | <9     | <11             | <8      | <6      |
| Moisture (% Max)             | 1.0                    | 1.0   | 1.0   | 1.0   | 1.0              | 1.0    | 1.0    | 1.0             | 1.0     | 1.0     |

| Fastness Properties/Paints | 5 SN | 13 SN | 22 SN | 23 SN | 123SN | 220 SN | 230 SN | 1060 SN | 1064 SN | 1070 SN |
|----------------------------|------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| Acid                       | 4    | 4     | 4     | 4     | 4     | 3      | 3      | 2-3     | 2-3     | 2-3     |
| Alkali                     | 4    | 4     | 4     | 4     | 2     | 2      | 2      | 1       | 1       | 2       |
| Light                      | 8    | 8     | 8     | 8     | 7-8   | 7-8    | 7-8    | 6-7     | 6-7     | 6-7     |
| Weather                    | 5    | 5     | 5     | 5     | 4-5   | 4-5    | 4-5    | 3-4     | 3-4     | 3-4     |
| Heat $^{\circ}C$           | 210  | 210   | 220   | 220   | 200   | 190    | 190    | 170     | 170     | 170     |

| Fastness Properties/Plastics             | 5 SN | 13 SN | 22 SN | 23 SN | 123 SN | 220 SN | 230 SN | 1060 SN | 1064 SN | 1070 SN |
|------------------------------------------|------|-------|-------|-------|--------|--------|--------|---------|---------|---------|
| Migration                                | 5    | 5     | 5     | 5     | 5      | 5      | 5      | 5       | 5       | 5       |
| Light Fastness (PE 1/3 ST) <sup>1)</sup> | 8    | 8     | 8     | 8     | 7-8    | 7-8    | 6-7    | 6-7     | 6-7     | 6-7     |
| Heat $^{\circ}C$                         | 260  | 260   | 260   | 260   | 260    | 260    | 260    | 260     | 260     | 260     |

1) Tested in PE 1/3 ST

2) Tested in PE, reduction 1:4  $TiO_2$

Reduction  
1:5 with  $TiO_2$

Mass & Tone  
Reproduced Colours



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