

Masterbatches



Exactly your chemistry.

Standard Color Chart
RENOL® Masterbatches

A Comprehensive Series Of Standard Heavy-Metal-Free Concentrates

Innovative engineering has made Clariant the world's leading supplier of heavy-metal-free color concentrates. The RENOL® series of standard colors delivers optimal quality and reliability in hundreds of applications industry-wide.

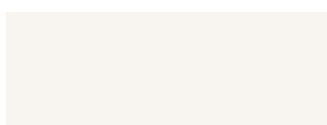
The series includes more than 100 resin-specific heavy-metal-free standard colors. RENOL masterbatches offer excellent processability and brilliant color for virtually all non-olefins – nylons, polyesters, acetals, polycarbonates, ABS, PVC, and HIPS among others. Plus, we offer RENOL standard for many other engineering resins, including high-temperature nylon, PPA, and PPS. Engineered with superior quality formulations, each line is designed to be cost-competitive without any sacrifice in quality. They can be used trouble-free across a wide range of processes.

Available for just-in-time delivery in small quantities, RENOL resin-specific concentrates are an ideal choice for outstanding, consistent color. For testing purposes, samples are also available upon request.

The let-down ratios are a suggested starting point and can be adjusted to meet your specific application need.

Visit www.clariant.masterbatches.com for the RENOL cross-reference guide.

RENOL® PVC Series – 23 colors for use in rigid or flexible PVC resins.



01VFV-110[†] White
LDR as required



02VFV-935 Dark Red LDR 25:1



02VFV-937 Medium Red LDR 25:1



02VFV-938[†] Pink LDR 25:1



03VFV-367[†] Green Shade Yellow
LDR 25:1



03VFV-368[†] Red Shade Yellow
LDR 25:1



04VFV-1004 Light Purple LDR 25:1



04VFV-1005 Purple LDR 25:1



04VFV-1006 Dark Blue LDR 25:1



04VFV-1007[†] Light Blue LDR 25:1



05VFV-729[†] Dark Green LDR 25:1



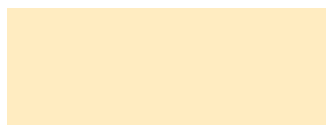
05VFV-730[†] Light Green LDR 25:1



06VFV-1929[†] Chocolate LDR 25:1



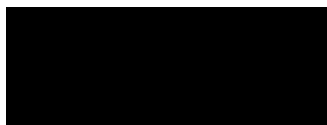
06VFV-1930[†] Dark Brown LDR 25:1



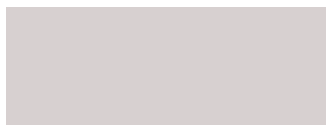
06VFV-1931[†] Almond LDR 25:1



06VFV-1932[†] Medium Brown
LDR 25:1



07RPV-039 Black
LDR as required



07VFV-1067 Light Grey LDR 25:1



07VFV-1068 Dark Grey LDR 25:1



09VFV-213[†] Peach LDR 25:1



09VFV-215[†] Dark Orange LDR 25:1



78VFV-964 Metallic Silver LDR 25:1



38VFV-669 Metallic Gold LDR 25:1

[†] Diarylide. We advise not to run these products at temperatures above 390°F (200°C) in order to avoid possible pigment decomposition.

[‡] FDA Compliant Resin. FDA colors are formulated @ 25 to 1 (4%) for an FDA compliant resin. Any change above the recommended let-down ratio can affect the FDA approval and must be checked with Clariant Masterbatches for confirmation of FDA status. FDA status no longer applies when an FDA colorant is used in a non-FDA resin. Ingredients used in FDA colors are in compliance with 21CFR178.3297, 21CFR178.2010, 21CFR178.3770, 21CFR181.27, and GRAS.

RENOL® Nylon Series – 18 colors for non-heat-stabilized Types 6 and 66 nylon.



C-NY-12048 Blue LDR 50:1



C-NY-12049 Purple LDR 50:1



DR 50:1C-NY-12050 Red LDR 50:1



C-NY-12051 Green* LDR 50:1



C-NY-12052 Tan LDR 50:1



C-NY-12053 Brown* LDR 50:1



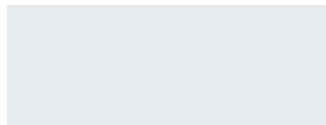
C-NY-12054 Pink LDR 50:1



C-NY-12055 Yellow LDR 50:1



C-NY-12056 Orange LDR 50:1



C-NY-12057 White LDR 50:1



C-NY-12058 Light Grey LDR 50:1



C-NY-12059 Dark Grey LDR 50:1



C-NY-13996 Dark Red LDR 50:1



C-NY-12045 LS Red*** LDR 50:1



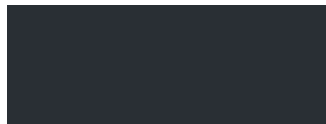
C-NY-12046 LS Yellow*** LDR 50:1



C-NY-12047 LS Orange*** LDR 50:1



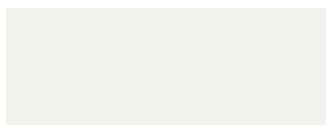
C-NY-04892 20% Carbon Black*
LDR 50:1



1000207S FDA Black** LDR 50:1

- * Can be used in heat-stabilized grades of 6 or 66 PA.
- ** Specific FDA compliance letter available on request.
- *** Suitable for exterior applications where light stability is required.

RENOL® Acetal Series – 16 colors formulated for use in most grades of both acetal homopolymers and copolymers.



C-PA-03972 White LDR 25:1



C-PA-02656 Blue White LDR 25:1



C-PA-02664 Pastel Blue LDR 25:1



C-PA-02665 Blue LDR 25:1



C-PA-03966 Light Yellow LDR 25:1



C-PA-03973 Light Grey LDR 25:1



C-PA-03974 Dark Grey LDR 25:1



C-PA-03963 Brown LDR 25:1



C-PA-03964 Yellow LDR 25:1



C-PA-03965 Green LDR 25:1



C-PA-03967 Light Green LDR 25:1



C-PA-03968 Violet LDR 25:1



C-PA-03969 Pink LDR 25:1



C-PA-03970 Orange LDR 25:1

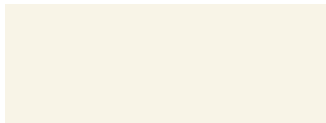


C-PA-03971 Red LDR 25:1



C-PA-02654 Black LDR 33:1

RENOL® PBT Polyester Series – 12 colors formulated for use in most grades of PBT.



C-PBT-02796 White LDR 33:1



C-PBT-02800 Yellow LDR 33:1



C-PBT-02801 Orange LDR 33:1



C-PBT-02799 Red LDR 33:1



C-PBT-02805 Pink LDR 33:1



C-PBT-02803 Blue LDR 33:1



C-PBT-02804 Green LDR 33:1



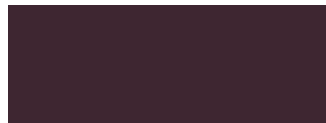
C-PBT-02806 Purple LDR 33:1



C-PBT-02798 Grey LDR 33:1



C-PBT-02797 Tan LDR 33:1



C-PBT-02802 Brown LDR 33:1



C-PBT-01338 20% Carbon Black
LDR 33:1

RENOL® ABS Series – 12 colors formulated for use in most grades of ABS.



00049299 Light Grey LDR 25:1



00049309 Tan LDR 25:1



00049300 Light Blue LDR 25:1



00049301 Medium Blue LDR 25:1



00049310 Brown LDR 25:1



00049298 Dark Grey LDR 25:1



00049302 Dark Blue LDR 25:1



00049307 Orange LDR 25:1



00049305 Yellow LDR 25:1



00049306 Red LDR 25:1

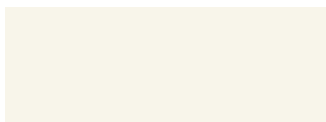


00049303 Green LDR 25:1



00049304 Dark Green LDR 25:1

RENOL® Polycarbonate Series – 12 colors for use in most grades of polycarbonate.



C-PC-07327 White LDR 25:1



C-PC-07153 Yellow LDR 25:1



C-PC-07154 Orange LDR 25:1



C-PC-07152 Red LDR 25:1



C-PC-07155 Pink LDR 25:1



C-PC-07150 Blue LDR 25:1



C-PC-07151 Green LDR 25:1



C-PC-07156 Purple LDR 25:1



C-PC-07148 Grey LDR 25:1



C-PC-07147 Tan LDR 25:1



C-PC-07149 Brown LDR 25:1



C-PY-01232 Black LDR 50:1

RENOL® PEEK Series – 14 colors for use in most grades of PEEK.



AK03642400 White LDR 10:1



AK13620000 Yellow LDR 10:1



AK23620000 Orange LDR 8:1



AK34642400 Red LDR 15:1



AK33620000 Dk Red LDR 25:1



AK43620001 Purple LDR 10:1



00070218 Lt Blue LDR 10:1



AK53642401 Blue LDR 6:1



00070217 Dk Blue LDR 10:1



AK63642400 Green LDR 15:1



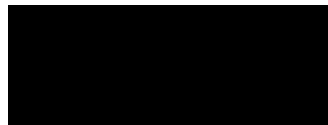
00083067 Dk Green LDR 15:1



AK32620007 Tan LDR 15:1

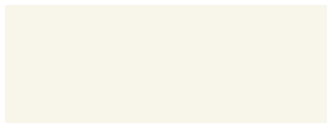


AK83642400 Brown LDR 25:1



AK94620005 Black LDR 25:1

RENOL® PSU Series – 14 colors for use in most grades of polysulfone.



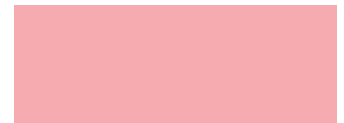
00028581 White LDR 25:1



00028685 Yellow LDR 25:1



AS23620001 Orange LDR 50:1



AS32620022 Pink LDR 25:1



00028689 Red LDR 25:1



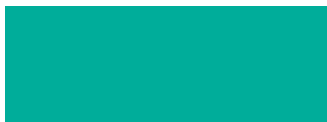
00067405 Purple LDR 25:1



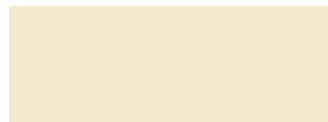
00024167 Blue LDR 33:1



00029006 Dk Blue LDR 25:1



00028693 Green LDR 25:1



00028641 Tan LDR 25:1



00028833 Brown LDR 25:1



00029010 Lt Grey LDR 25:1



00028636 Dk Grey LDR 25:1



00028891 Black LDR 25:1

RENOL® LCP Series – 9 colors for use in most grades of LCP.



00034500 Yellow LDR 25:1



00034498 Orange LDR 25:1



00035542 Pink LDR 25:1



00034496 Red LDR 25:1



00034495 Dk Red LDR 25:1



00034509 Purple LDR 25:1



00033713 Blue LDR 25:1



00035540 Dk Blue LDR 25:1



00035543 Brown LDR 25:1

All RENOL color concentrates for PBT, ABS, polycarbonate, nylon and acetal series are UL-Recognized under the Component Program. Specific ratings by grade are available upon request.

NOTE: Small color differences can be expected from these color charts depending on the grade of resin used.

A Partner in Innovation

A global color technology leader, Clariant offers the industry's broadest range of high-performance masterbatches for plastics, including RENOL® masterbatches and compounds for engineering resins, styrenics and PVC; REMAFIN® masterbatches and compounds for olefins; OMNIColor® universal color masterbatches; CESA® additive masterbatches; HYDROCEROL® chemical foaming and nucleating agents, and ENIGMA® special effects. These products are widely specified in numerous

industries including packaging, automotive, durable goods, housewares, office automation, fiber, and electrical.

Clariant's in-depth market knowledge, formulation expertise and customer commitment are recognized worldwide. A global network of ISO-9000 facilities incorporates the most demanding manufacturing standards to ensure the quality and consistency of Clariant masterbatches wherever they are used.

Clariant also continues to drive new dimensions in color creativity. Experts at our seven ColorWorks™ centers around the world focus on aesthetics, functionality, color efficiency, and project coordination. Combining experience, inspiration and technology, ColorWorks helps customers strengthen brand recognition, enhance new product development, manage color across resins, and accelerate speed to market through innovative color solutions.

How to Calculate Your Coloring Costs

$$\frac{\text{Cost/lb. of Concentrate}}{\text{Let-Down Ratio} + 1} - \text{Cost/lb. of Resin} = \text{Coloring Cost}$$

Example:

$$\frac{6.00 - 1.26}{33 + 1} = \frac{4.74}{34} = 14\text{¢/lb.}$$

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