Jet black colors for industrial applications

Color Solutions

High Jet Black Colorants

General Information

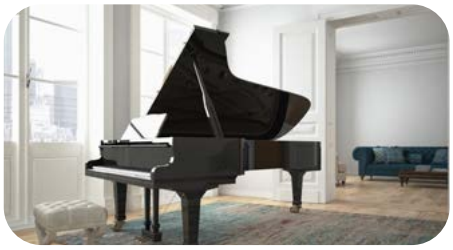
Vibrantz Technologies has developed several High Jet Carbon Black colorants, which when used in masstone applications, result in deep, high jet black colors.

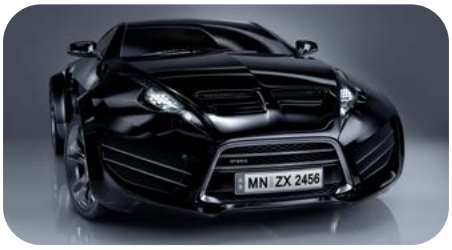
Application

Carbon Black dispersions (color index PBk 7) are available in all of our colorant lines. Most of these carbon black pigments used in tinting systems are also known as tinting blacks. They are based on large particle size carbon black pigments and work very well in tints, but have poor jetness when used in masstones. However, fine particle size carbon blacks produce superior jetness. For that reason, we have created a number of additional colorants based on extremely fine Carbon Black pigments.

Properties

Normal tinting blacks can be used to formulate excellent grey and black colors. However, in industrial applications and especially in high gloss industrial applications, very deep black colors are often necessary. An example of that is RAL 9005. A pigment dispersion based on an extremely fine particle size cabon black is required to reach RAL 9005 and similar colors. The finer the particle size of the pigment, the better the jetness in the final application. Final jetness of the coating, however, is not only determined by the particle size of the pigment, but also by the degree of stabilization of the pigment dispersion in the base.





Our Services

As a frontrunner in integrating tinting solutions, Vibrantz Technologies provides excellent service in the set-up of your tinting systems as well as smooth colorant technology conversions. Our technical support includes:

- Assurance of colorant and base paint compatibility
- System design, optimization and pigment selection
- Color matching and database development
- Equipment compatibility and sales support

Stringent production controls and processes ensure that all colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.

Name	Technology	Pigment	Pigment content of colorant [%]	Light Fastness of Pigment [1]		Weather Resistance of Pigment [2]		Density of Colorant (kg/m3)
				Mass	Tint	Mass	Tint	
Temacolor HP 3097	Solvent-based	PBk 7	16	8	8	5	5	1100
Temacolor HP 8097	Solvent-based	PBk 7	10	8	8	5	5	1100
Temacolor T 60	Solvent-based	PBk 7	14	8	8	5	5	1073
Chroma-Chem High Jet Black 7 WAB	Water-based	PBk 7	11	8	8	5	5	1082
Chroma-Chem CBX-02736	Solvent-free CAB Chips*	PBk 7	29	8	8	5	5	1310
Solvasperse IND BLJ	Solvent-based	PBk 7	14	8	8	5	5	1073
Plasticolors CF-20737	Solvent-free	PBk 7	34	8	8	5	5	1211
Plasticolors DTP-02962	Solvent-free	PBk 7	40	8	8	5	5	1191

The values given in the table are guidance figures only. The data is obtained from pigment suppliers, individual testing is recommended.
[1] Light fastness is measured on an eight step blue scale, where 1 = very poor light fastness, 8 = excellent light fastness.
[2] Weather resistance is measured on a five step gray scale, where 1 = very poor weather resistance , 5 = excellent weather resistance.
*To use the CBX chips, please see separate "Cellulose Acetate Butyrate Dry Chip Processing" application sheet.