



PIGMENT YELLOW 183

DCC 7183 & 7183XS

FDA compliant in food plastics

Heat stable to over 300° C



Dominion Colour Corporation
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ISO 9001
ISO 14001

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Pigment Yellow 183 - DCC 7183 & 7183XS

Chemical Class

Monoazo C.A.S. # 65212-77-3

Product Overview

DCC 7183 - Standard reddish shade yellow pigment for the colouration of plastics including LDPE, HDPE, PVC, PP and ABS.

DCC 7183XS - Stronger version of DCC 7183. Suitable for use in all the same polymers. Primarily intended for mid to light tone applications.

Key Attributes

Non-DCB Containing Yellow
(Dairylike free – DCB is a suspect human carcinogen)

Very heat stable - >300°C
Will not cause polymer shrinkage
Excellent lightfastness
Bleed/migration resistant in PVC

Pigment Properties

Specific Gravity: DCC 7183 – 1.4 g/cm³
DCC 7183XS – 1.5 g/cm³

FDA Compliant

DCC 7183 and DCC 7183XS are Food and Drug Administration (FDA) compliant for use as colourants in polymers used to manufacture food packing under section 178.3297.

Resistance Properties

Alkali Resistance: Excellent
Acid Resistance: Excellent
Weatherfastness: Masstone – Good, Tint – Poor
Warpage: None to Low
Heat Stability: >300°C

DCC 7183 – Tested in LDPE vs. Listed Competitive Grades

Competitive Grade	TiO ₂ Ratio	DL*	Da*	Db*	DC*	DE*	Tint Strength	Thin Film Dispersion	Heat Stability
BASF K2270	1:3	0.61	0.16	2.14	2.13	2.23	+3%	Comparable Excellent	Equal up to 320°C (HDPE)
	1:10	-0.34	0.04	1.81	1.79	1.84	+10%		
	1:20	-0.33	0.10	2.45	2.44	2.48	+15%		
Clariant HGR	1:3	-0.44	2.67	0.60	1.07	2.77	+5%	Comparable Excellent	Equal up to 320°C (HDPE)
	1:10	-0.76	1.73	1.06	1.32	2.17	+11%		
	1:20	-0.65	1.17	1.28	1.42	1.86	+12%		

DCC 7183XS – Tested in LDPE vs. Competitive Grades

Competitive Grade	TiO ₂ Ratio	DL*	Da*	Db*	DC*	DE*	Tint Strength	Thin Film Dispersion	Heat Stability
BASF K2270	1:3	0.63	-2.60	3.21	2.71	4.18	+7%	Comparable Excellent	Equal up to 320°C (HDPE)
	1:10	0.16	-2.09	5.49	5.13	5.87	+21%		
	1:20	0.23	-2.27	4.60	4.30	5.14	+19%		
Clariant HGR	1:3	-0.38	-0.14	1.68	1.63	1.72	+8%	Comparable Excellent	Equal up to 320°C (HDPE)
	1:10	-0.63	-0.46	4.41	4.32	4.46	+24%		
	1:20	-0.18	-1.20	4.17	4.02	4.34	+20%		

THE INFORMATION IN THIS BROCHURE IS BASED ON EXTENSIVE TESTING AND APPLICATION EXPERIENCE AND IS BELIEVED TO BE A RELIABLE INDICATION OF THE RESULTS THAT MAY BE EXPECTED. HOWEVER, THE DATA DOES NOT CONSTITUTE A SPECIFICATION FOR THE PRODUCTS, AND IS OFFERED ONLY AS A GUIDE TO PERFORMANCE WITHOUT GUARANTEE OR WARRANTY OF ANY KIND. BECAUSE OF THE DIFFICULTIES OF MODERN COLOUR REPRODUCTION, THE SHADES MAY VARY SLIGHTLY FROM THE FINAL COLOUR APPLICATION. SINCE MANY VARIABLES HAVE A STRONG INFLUENCE ON PIGMENT PERFORMANCE, THE USERS ARE ENCOURAGED TO TEST EACH PRODUCT IN THEIR OWN LABORATORY PRIOR TO USE.



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