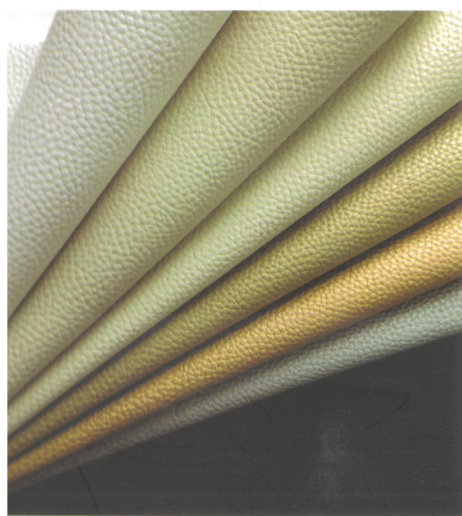


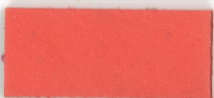
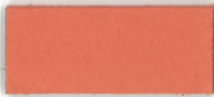
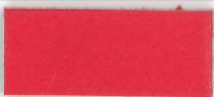
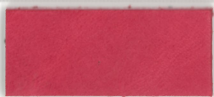
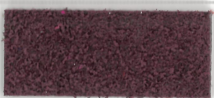
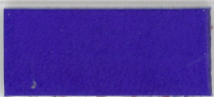
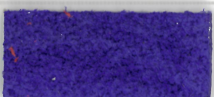
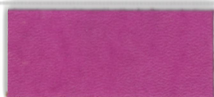
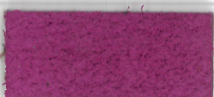


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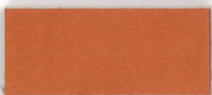
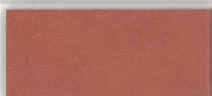
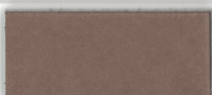
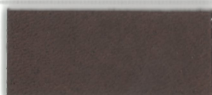
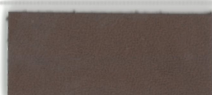
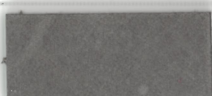
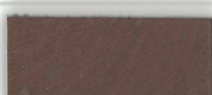
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Bodalyn Dyes for Leather

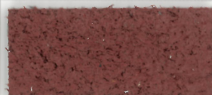
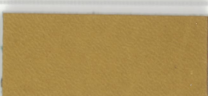
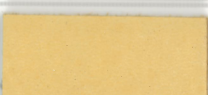
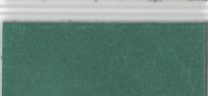
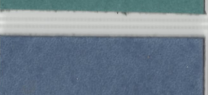
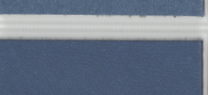
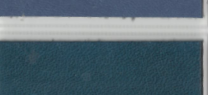
Colour Fastness and general Properties	BODALYN DYESTUFF Light Shade	BODALYN DYESTUFF Deep Shade	Fastness to Light-IUF 402/80h	Fastness Migration into Plasticized PVC-IUF 442	Fastness to Washing	Fastness to Perspiration	Wet rub Fastness	Dry rub Fastness	Penetration	Solubility at 60 deg. C g/l IuF 201	Metal Complex	Furniture Upholstery	Ref.
BODALYN													
Yellow G			3	3	Alt.1 Co.3 Wo.4	3 4-5 1	3-4	4	3	40			B
Yellow GN			3-4	2	Alt.3 Co.4 Wo.3	3 3 4	3	4	4	50			
Golden Yellow MR			4-5	2-3	Alt.2 Co.4-5 Wo.3	5 3 3-4	3-4	4	3	60	Y	S	
Orange MRL			3	2-3	Alt.2 Co.4 Wo.4	3 2-3 2	3	4	4	60	Y		B
Orange PR			3	3	Alt.4 Co.4-5 Wo.5-6	3 2-3 3-4	3-4	4	4	40			
Orange G			3	3-4	Alt.3 Co.4 Wo.3-4	2-3 3 3	3	4	4	60	Y		
Orange TW			3	3-4	Alt.3 Co.4 Wo.3	2 3 3	3-4	4	4	60			
Red G			2	2-3	Alt.1 Co.4 Wo.4	2 3 2	3	4	3	50			
Brilliant Red 2B			3	3	Alt.1 Co.4 Wo.4	2-3	3	4	3-4	50			
Scarlet MGL			4	2-3	Alt.2 Co.4-5 Wo.4-5	2 2 3	4	3-4	3	50	Y		
Red A			3-4	3	Alt.2 Co.3 Wo.4	2 1 2	3	3-4	3	40			
Red 3BN			2	3	Alt.1 Co.2 Wo.1	2 2 2	3	3-4	2-3	50			
Maroon V			2	3	Alt.1 Co.4 Wo.4	4 4 1	3	3-4	3	50			
Bordux MB			3	2-3	Alt.3 Co.4 Wo.3	4 4 3-4	2-3	3-4	4	50	Y		B
Violet 4BS			2-3	2-3	Alt.2 Co.1-2 Wo.2	2-3 2 2	2-3	3	3	40			
Violet 5B			3-4	2-3	Alt.3 Co.2 Wo.3	3 2 3	3	4	3-4	50			

With out obligation

Colour Fastness and general Properties	BODALYN DYESTUFF Light Shade	BODALYN DYESTUFF Deep Shade	Fastness to Light-IUF 402/80h	Fastness Migration into Plasticized PVC-IUF 442	Fastness to Washing	Fastness to Perspiration	Wet rub Fastness	Dry rub Fastness	Penetration	Solubility at 60 deg. C g/l IuF 201	Metal Complex	Furniture Upholstery	Ref.
BODALYN													
Light Brown GN			4	3	Alt.3 Co.4 Wo.4	2-3 3-4 3	3-4	4-5	3	60	Y	S	B
Brown NGB			5	3	Alt.5 Co.4-5 Wo.4	2 1 2	3-4	4	3	60	Y	S	
Brown GOL			4-5	3-4	Alt.3 Co.4 Wo.3	3-4 3 3	3-4	4-5	4	50	Y	S	B
Brown AT			3-4	3	Alt.3 Co.2-3 Wo.4-5	4 2-3 2	3	4	3	60	Y		
Brown 2RL			4-5	4	Alt.2 Co.2-3 Wo.3-4	4-5 2-3 4	4-5	3-4	3	50	Y		
Brown HEGT			3-4	3-4	Alt.2-3 Co.3-4 Wo.4	4-5 2-3 5	3-4	4-5	3	60	Y		
Brown TL			4-5	2-3	Alt.4 Co.4-5 Wo.3	3 2 3	3	4	3	60	Y		
Brown RN			4	4	Alt.3 Co.4 Wo.4	3 2 3	4	4-5	3-4	50	Y		
Brown MFR			3-4	3	Alt.4 Co.3 Wo.3	2 2 2	3-4	4-5	3	60	Y		B
Brown DS			5	3-4	Alt.4 Co.4-5 Wo.3-4	4 4 3-4	3-4	4	4	50			
Brown SR			3-4	3	Alt.4 Co.3 Wo.3	2 2 2	3-4	4-5	3	60	Y		
Brown NR H/C			4	3	Alt.4 Co.3 Wo.3	3	3-4	3-4	3	50			B
Brown KN			4	3-4	Alt.4 Co.4-5 Wo.3-4	4 4 3-4	3-4	4	4	50	Y		
Brown 2BL			3-4	3-4	Alt.2-3 Co.3-4 Wo.4	4-5 2-3 5	3-4	4-5	3	60	Y		
Dark Brown B			5	3-4	Alt.4 Co.4-5 Wo.3-4	4 4 3-4	3-4	4	4	50			B
Brown SGR			4	3	Alt.1-2 Co.4 Wo.3	2 2 2	3-4	4	3	50	Y	S	

The shades are under laboratory test conditions on Chrome re-tanned leather,

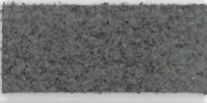
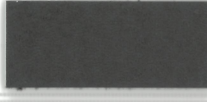
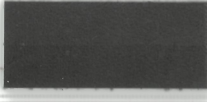
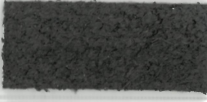
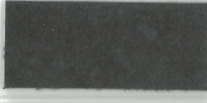
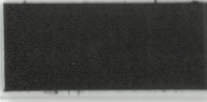
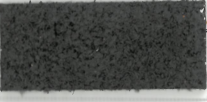
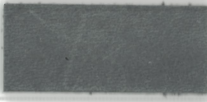
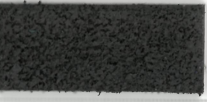
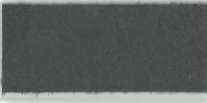
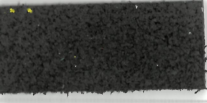
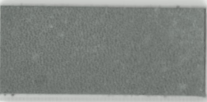
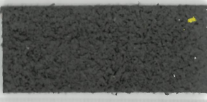
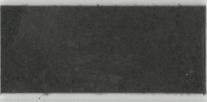
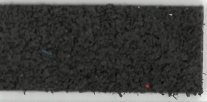
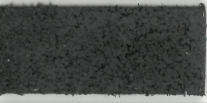
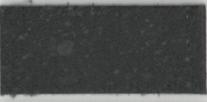
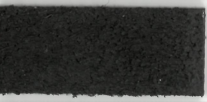
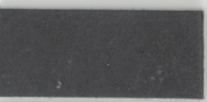
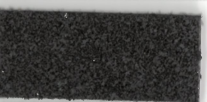
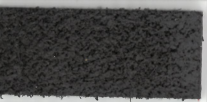
S : Suitable subject to test in local conditions & process,

Colour Fastness and general Properties	BODALYN DYESTUFF Light Shade	BODALYN DYESTUFF Deep Shade	Fastness to Light-IUF 402/80h	Fastness Migration into Plasticized PVC-IUF 442	Fastness to Washing	Fastness to Perspiration	Wet rub Fastness	Dry rub Fastness	Penetration	Solubility at 60 deg. C g/l IuF 201	Metal Complex	Furniture Upholstery	Ref.
BODALYN													
Brown RL			4-5	4	Alt.2 Co.2-3 Wo.3-4	4-5 2-3 5	3-4	4-5	4	50	Y	S	B
Brown NT			4-5	3-4	Alt.5 Co.4 Wo.1-2	4 3 2-3	3-4	4	5	60	Y		B
Brown HBR			3-4	3	Alt.1-2 Co.4 Wo.3	3 2 2	3-4	4-5	3	50			
Brown MBR			4	3	Alt.3-4 Co.3-4 Wo.4	3-4 3 4	3-4	4-5	4	50	Y		
Olive Brown 5G			3-4	3	Alt.3 Co.3-4 Wo.3	3 2 2	3-4	4	4	60			
Beige LF			4	3	Alt.3 Co.4 Wo.4	2-3 3-4 3	3-4	4-5	3	60	Y	S	
Beige RU			3-4	4	Alt.3-4 Co.3 Wo.3	2-3 3 3	3-4	4-5	3	60			
Olive Green SGL			3-4	2	Alt.3-4 Co.3 Wo.4	2 2 1	4	4-5	3-4	50	Y		
Green BS			3-4	3	Alt.3-4 Co.3 Wo.4	2 2 1	3	4	3	40			
Green N			4	3	Alt.1 Co.3 Wo.4	2 1 1	3	4	4	50			B
Green V			3	2-3	Alt.2 Co.2 Wo.3	1 2 2	3	3-4	4	40			
Green M2GL			4	2-3	Alt.1 Co.3 Wo.4	2 2 1	3-4	4	4	50	Y		
Dark Green B			3-4	2-3	Alt.1 Co.3 Wo.4	2 1 1	3-4	4	3-4	50			
Blue N			4	3	Alt.3-4 Co.3 Wo.4	2-3 3 3	3	3-4	4	40	Y	S	B
Navy Blue S5R			5	3	Alt.3 Co.3-4 Wo.3-4	3 2 3	3-4	4-5	4	40			
Black JBX			3-4	4	Alt.4-5 Co.2-3 Wo.1-2	2 1 3	3-4	4-5	4	80			

With out obligation

The shades are under laboratory test conditions on Chrome re-tanned leather,

S : Suitable subject to test in local conditions & process,

Colour Fastness and general Properties	BODALYN DYESTUFF Light Shade	BODALYN DYESTUFF Deep Shade	Fastness to Light-IUF 402/80n	Fastness Migration into Plasticized PVC-IUF 442	Fastness to Washing	Fastness to Perspiration	Wet rub Fastness	Dry rub Fastness	Penetration	Solubility at 60 deg. C g/l IUF 201	Metal Complex	Furniture Upholstery	Ref.
BODALYN													
Grey GC			3-4	3-4	Alt.4 Co.3 Wo.3	3 2 3	3-4	4	4	50			
Black NTC 160%			4-5	4	Alt.3-4 Co.3 Wo.3	2-3 3 2-3	3-4	4-5	4	80		S	
Black NT			4-5	4	Alt.3-4 Co.3 Wo.3	2 3 2	3-4	4-5	4	80			
Black NTC 135%			4-5	4	Alt.3-4 Co.3 Wo.3	2 3 3	3-4	4-5	4	80		S	
Black 4TN			4-5	4	Alt.3-4 Co.3 Wo.3	2-3 3 2-3	3-4	4-5	4	80			B
Black EE-HC			4-5	4	Alt.3-4 Co.3 Wo.3	2-3 3 2-3	3-4	4-5	4	80		S	B
Black SNT 150%			4-5	4	Alt.3-4 Co.3 Wo.3	2-3 3 2-3	3-4	4-5	4	80			B
Black TD			4	3-4	Alt.3 Co.4 Wo.3-4	2-3 3 3	3	4	4	80		S	L
Black NTB			4-5	4	Alt.4 Co.3 Wo.3	2-3 3 3	3-4	4-5	4	80		S	B
Black TN Liq.			4-5	4	Alt.3-4 Co.3 Wo.3	2-3 3 2-3	3-4	4-5	4	80		S	B
Black MRN			3	3	Alt.3 Co.3 Wo.3	4 3 3	3	4	4	60			
Black PRC			4	4	Alt.3 Co.2 Wo.3	3 2 3	3-4	4	3-4	50			
Jet Black NBR 185%			4-5	4-5	Alt.3 Co.2-3 Wo.2	3 3-4 2	3	4	4	60		S	
Black CC			3-4	4	Alt.3 Co.2-3 Wo.3	2 2-3 3	3-4	4	3-4	60			
Black CN			4-5	4	Alt.4 Co.3-4 Wo.3	3 2 3	3-4	4	3	50	Y		B
Black MSRL			3-4	4	Alt.4-5 Co.2-3 Wo.1-2	2 1 3	3-4	4-5	4	80			

With out obligation

The shades are under laboratory test conditions on Chrome re-tanned leather,

S : Suitable subject to test in local conditions & process.

Recipe

Substrate : F/Cr. Cow Re-tanned Leather.

% Based on : Shaved Wt.

Origin : Indian Cow

Thickness : 1.1/1.2 mm

Customer :

Development :

Technician :

		%	Chemicals	Tep.	Time	Remarks
Wet Back:		200	Water	40		
		0.5	Wetting Agent		10	
	+	0.5	Formic Acid		20	Ph 3.8 D/Wash
Re-Chroming		150	Water	40		
		4%	Chrome Syntan			
		2%	BCS			
		0.5	Cat. Fat Liq		45	
	+	1	Sod. Formate			
		0.5	Sod. Bicarbonate		45	Ph 4.0 D/W
Neutralization		150	Water	40		
		1	Bodatan AKM		10	
	+	1	Sod. Formate			
		0.5	Sod. Bicarbonate		50	Ph 5.5 D/W
Retanning	100		Water	40		
		2	Bodatan RE			
		0.5	Bodaliq ASN		30	
	+	6	Bodatan OS			
		4	GS Powder		30	
	+	4	Bodatan R7		30	
	+	1	Bodatan PR		20	
	+	0.5	Formic Acid		20	Drain
Dyeing & Fatliquoring		150	Water	50		
		1	Bodatan DP		10	
		3/4th	Dye**		30	Check Penetration
	+	3	Bodaliq ASN			
		2	Bodaliq PN			
		0.5	Boda Oil CP		30	
	+	1	Formic Acid		5+5+20	Check, Drain
**Top Dye		150	Water			
	+	1/4th	Dye**		20	
			Formic Acid		10+20	Drain, Wash, Pile up.
Horse up, Set out, Vacuum dry, Hang to dry, Condition, Stake, Toggle.						
With out obligation						

Benefits of these dyes are :

- Excellent Dye yield and brilliant shades.
- Very cost effective as Bodal is also manufacturer & Exporter of most of the Dye intermediates.
- Very good compatibility and levelness with good exhaustion properties.
- Mostly homogeneous and dyes with one C.I.

Selection of Dyes as per the Finishing of Leather

Demands for leathers with very low finishes are increasing with only dyed look. To meet this demands high quantities of dyes are used during leather wet processing. So, the selection of dyes becoming very Important nowadays! Since these leather are finished with very light or no pigments and sometimes different types of Oils and waxes are used to get some special feels and look to the leather article, special care should be taken to select the dyes.

Oils and waxes contains some solvents and excessive use of oils / waxes may cause migration of dyes in to it. These sometimes results a different patches on the finished leathers. So, it is necessary that the tanner should check the compatibility of the dyes with their finishing systems before bulk production.

We have included mostly homogeneous dyes with consistent quality in this shade card but we strongly recommend to test the compatibility of finishing systems with dyes In small leather pieces before bulk lot production.

Certificate



GOTS Certificate

REACH Pre Registration

Government of India Recognized Export House



Bodal Chemicals Ltd.

COLOURS. INTEGRATION. INNOVATION.

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Fax : +91-(079) 2583 5245, 2583 6052

E-mail : Dyestuff Division : info@bodal.com,

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Dye Intermediates Division : export@bodal.com

Other Chemicals Division : ankitpatel@bodal.com

CIN: L24110GJ1986PLC009003

CORPORATE OFFICE:

Bodal Corporate House,
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