SILICONE RUBBER MASTER BATCH

In order to complement our MB for RUBBER (FREDGUM) Fredcolor SL is introducing into the market the new liquid and solid master batches to be used in SILICONE RUBBER INDUSTRY.

Silicone Market is and increasing market year by year. The Compound Annual Growth Rate expected in the period 2012-2017 is almost 7%. The Global Silicones Market will be worth approximately 17.500 million € by the end of 2017.

Despite the fact that the main use of silicones is placed in construction; other markets in which silicones can be sued are growing as well.

Silicone Rubber provides a wide range of physical and chemical properties. The main characteristics are, chemical inertness, it is human and environmental friendly, it offers excellent water repellence, good electrical properties, and most of all it has a high thermal resistance (both in high and low temperature). This makes final products durable, stable and user friendly.

A growing market has always been a demanding market. At FREDCOLOR SL we have become experts in introducing pigments into Silicone Rubber, both in Liquid Form and in Solid Form.

For Solid Silicone (HTV); we provide a non-sticky, solid yet easy to disperse in seconds even while using a roll mill.

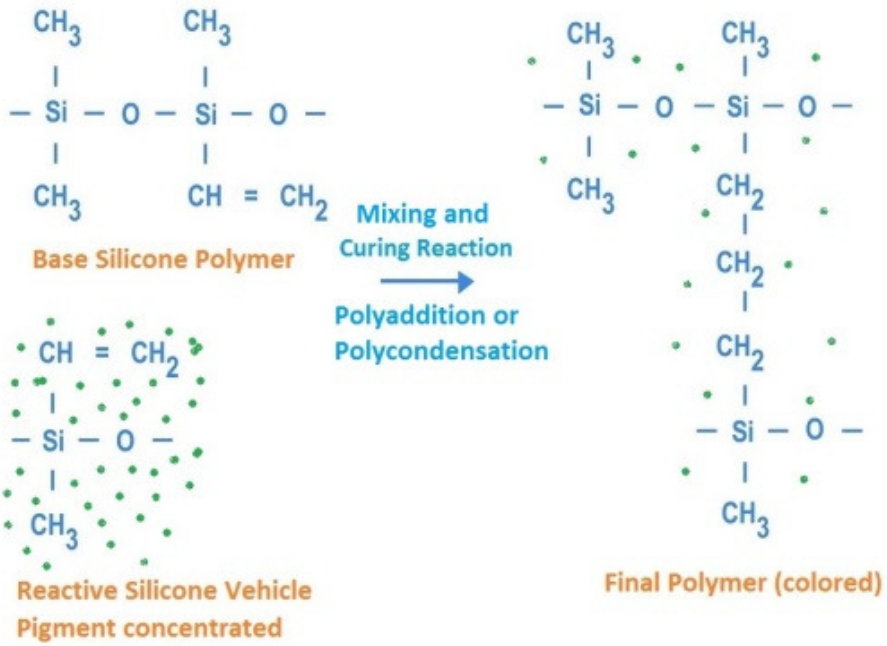
For Liquid Silicone (LSR); we provide pastes which do not have a very high viscosity therefore allowing the possibility to pump and properly dosed continuously our liquid master batch into injection moulding systems.

Our Commitment to Production

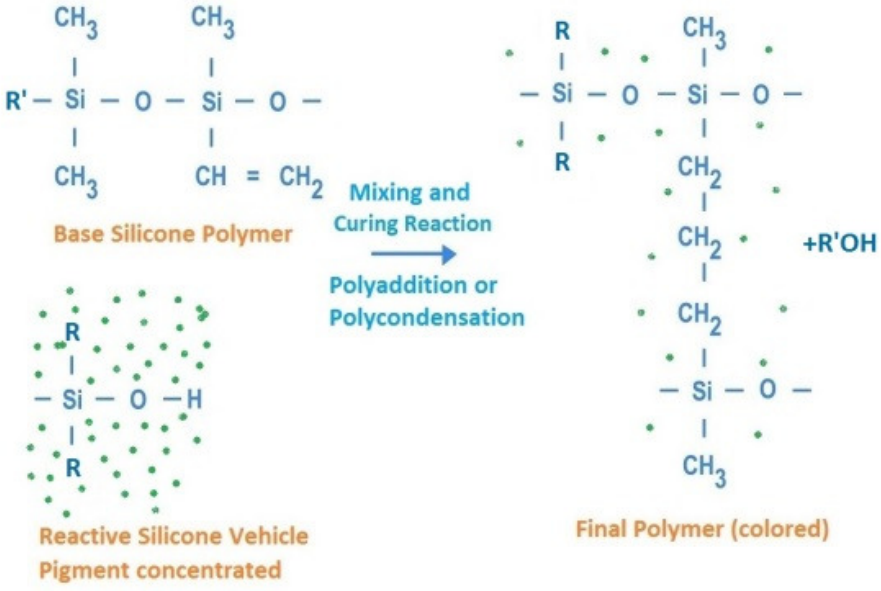
The high concentration and the excellent dispersion of the pigment grant our Colorant Bases a high tint strength.

The vehicles used are 100% reactive, compatible and do not affect at all to the properties of the final product.

SOLID



LIQUID



Taking into consideration the demands from the Rubber Silicino Market, we have developed a BASIC MB COLOR CHART. This is not to say that we can develop other colors which we are happy to do so as well as we are able to develop end colors (RAL) under specific demand from the customer.

APROX. TONE	C.I.	COLOR	REF	LIGHT FASTNESS (ASTM D4303)		THERMAL STABILITY (DIN EN 12877)	MIGRATION (DIN EN 20105-A03)
				Full Shade (1-8)	Tint Shade (1-8)	ºC	(1-5)
	P.W.6	WHITE	B.C. WHITE 6	8	8	300	5
	PY53	YELLOW	B.C. YELLOW 53	8	8	300	5
	PY180	YELLOW	B.C. YELLOW 180	6-7	6	290	5
	PY183	YELLOW	B.C. YELLOW 18	7	6	300	5
	PO64	ORANGE	B.C. ORANGE 64	7	6	280	5
	PR254	RED	B.C. RED 254	7	6-7	250	5
	PR122	RED	B.C. RED 122	8	8	300	5
	PR177	RED	B.C. RED 177	8	7	260	5
	PR101	RED	B.C. RED 101/130	8	8	300	5
	PR101	RED	B.C. RED 101/160	8	8	300	5
	PB36	BLUE	B.C. BLUE 36	8	8	300	5
	PB28	BLUE	B.C. BLUE 28	8	8	300	5
	PB29	BLUE	B.C. BLUE 29	8	8	300	5
	PB15:3	BLUE	B.C. BLUE 15:3	8	7-8	300	5
	PB15:1	BLUE	B.C. BLUE 15:1	8	7-8	300	5
	PV19	VIOLET	B.C. VIOLET 19	8	8	300	5
	PV15	VIOLET	B.C. VIOLET 15	7-8	7	270	5
	PG17	GREEN	B.C. GREEN 17	8	8	300	5
	PG7	GREEN	B.C. GREEN 7	8	7-8	280	5
	PBK7	BLACK	B.C. BLACK 7	8	8	300	5
	PBK28	BLACK	B.C. BLACK 28	8	8	300	5

With this introduction from our SILICONE RUBBER MB we take the opportunity to add a standard TDS from both our SOLID and LIQUID Silicone Master Batch Range.

SOLID MB

Características Charasteristic	Cd'A CoA	Valor típico Typical value	unides units	Tolerancia Tolerance	Método de Análisis Analysis method
Peso Especifico Speciffic gravity		1,38	g/cm3	± 0,1	UNE-EN ISO 1183-1:2004
Color RAL RAL Color	X	5013			UNE-EN ISO 48073-3:1994
Tolerancia de color Color Tolerance	X		dE CIELAB	<1	UNE-EN ISO 11664-4
Concentración Concentration		50	%	± 0,1	Físic Phisical
Consistencia Consistency		<85	1/10mm	± 20	UNE-EN ISO 6743-9
Solidez a la temperatura Heat fastness		280	ºC		DIN EN 12877
Solidez a la luz Light fastness		7-8			UNE EN ISO 105-B02/A1
Solidez a la migració Fastness to bleeding		5			UNE-EN ISO 105-Z06:2001
Caducidad Expiry date	X	3	anys years		Físic Phisical
Tamaño de partícula Particle size		<25	micres microns		UNE-EN ISO 1524

Cd'A/CoA: Características certificables / Certificate parameters

LIQUID MB

Características Charasteristic	Cd'A CoA	Valor típico Typical value	unides units	Tolerancia Tolerance	Métod de análisis Analysis method
Peso específico Speciffic gravity		1,25	g/cm3	± 0,1	UNE-EN ISO 1183-1:2004
Color RAL RAL Color	X	5013			UNE-EN ISO 48073-3:1994
Tolerancia de color Color Tolerance	X		dE CIELAB	<1	UNE-EN ISO 11664-4
Concentración Concentration	X	25	%	± 0,1	Físic Phisical
Viscosidad Viscosity	X	45000	cPoise	± 5000	UNE-EN ISO 2555:2000
Solidez a la temperatura Heat fastness		280	ºC		DIN EN 12877
Solidez a la luz Light fastness		7-8			UNE EN ISO 105-B02/A1
Solidez a la migración Fastness to bleeding		5			UNE-EN ISO 105-Z06:2001
Caducidad Expiry date	X	6	Meses Months		Físic Phisical
Tamaño de partícula Particle size	X	<25	micres microns		UNE-EN ISO 1524

Cd'A/CoA: Características certificables / Certificate parameters

Our Commitment to Food contact

We are strongly oriented on the food contact market in both HTV and LSR.

We certify our vehicle(s), pigment(s) and process meets or are listed in USA's FDA, European's directives, French's LNE and German's BfR.

BfR
Risiken erkennen – Gesundheit schützen

LNE
Le progrès, une passion à partager

Our Commitment to Legislation

If you need a coloration to meet any directive or legislation, we can help.

If you need sectored attestations or certificates (such as automotive, etc..) for the coloration, we can help too.

For any inquiries, do not hesitate to contact us.