



Archroma is a global color and specialty chemicals company committed to innovation, world-class quality standards, high service levels, cost-efficiency and sustainability. Headquartered in Pratteln, Switzerland, the company operates a highly integrated, customer-focused platform that delivers specialized performance and color solutions in over 90 countries.

**/ CREATING SUSTAINABLE SOLUTIONS**

Archroma's purpose is to lead our industry towards a more sustainable future for our customers and markets. We touch and color people's lives every day, everywhere. That is why, at Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable. We look at how we operate in a holistic way, in order to protect the health and safety of our people, our communities, our customers, the consumers, as well as the environment in order to preserve our Earth for us all and future generations.

**/ CERTIFICATION**

Archroma and all subsidiaries operate to global ISO standardized management systems:

- SN EN ISO 9001:2015 Quality Management Systems Standard
- SN EN ISO 14001:2015 Environmental Management Systems Standard
- SN EN ISO 45001:2018 Occupational Health and Safety Management System Standard

Initial third-party audit and certification in 2014, re-certified in 2023 with a current validity until July 2026.



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CERTIFIED TO  
SE EN ISO 9001:2015  
SN EN ISO 14001:2015  
SN EN ISO 45001:2018



**LUMAPLAST®**

SOLVENT DYES  
Colorants for industrial materials


XXXXe, Global, 2023



/ VALUE PROPOSITION


LUMAPLAST® has the following characteristic as colorants for synthetic resins.

TRANSPERENCY & COLOR STRENGTH




LUMAPLAST® dyes contain a very low amount of impurities, allowing users to achieve vibrant and intense hues. This range of dyes offer excellent transparency and clarity, making them ideal for applications that require vibrant and clear colors.

HEAT & MIGRATION RESISTANCE




LUMAPLAST® dyes exhibit good heat stability with some colorants remaining stable at over 300oC (572oF) especially when used in engineering plastics. These dyes also display excellent resistance to migration when tested for 72hrs at 60 ° under 5.1Kgs of pressure.

FASTNESS TO LIGHT AND WEATHER



LUMAPLAST® dyes ensure long-lasting results even in challenging environments where the color of the final product does not change even after long term exposure to light and weather.

COMPATIBILITY




LUMAPLAST® dyes are compatible with various resins:

- / Polystyrene..... (PS)
- / Polyamide ..... (PA)
- / Styrene-acrylonitrile resin ..... (AS)
- / Polyester ..... (PE)
- / Acrylonitrile-butadiene-styren . (ABS)
- / Poly (methyl metacrylate) ..... (PMMA)
- / Polycarbonate ..... (PC)
- / Rigid polyvinyl chloride ..... (Rigid PVC)
- / Polyphenylene resin ..... (PP)
- / Poly Ethylene Terephthalate ... (PET)
- / Poly Butylene Terephthalate ... (PBT)

/ APPLICATIONS

PLASTICS AND ENGINEERING PLASTICS




LUMAPLAST® dyes are used in the production of various plastic articles such as packaging materials, containers, toys, and automotive parts. The dyes provide a transparent color of various polymers including PS, AS, ABS, PMMA, PET and PC.

SYNTHETIC FIBERS




LUMAPLAST® dyes are also suitable for coloration of synthetic fibers. It can be applied in spin-dyeing of polyester or polyamide fiber and is completely soluble in polymer to produce intense colors with excellent color fastness.

PAINT, COATING AND INKS



LUMAPLAST® dyes can be used in the formulation of paints for automotive coatings, industrial coatings and decorative paints to achieve a durable weather-resistant coloration. These dyes are commonly used in the formulation of ink for inkjet printers. These inks enable printers to achieve vibrant, long-lasting colors and can be used on various substrates.

OTHER USES



LUMAPLAST® dyes can be employed in the formulation of wood stains and varnishes for furniture, flooring, and other wood products, providing rich and transparent coloration while enhancing the natural beauty of the wood. It can also be used in various other applications like leather, waxes, meta foil, oils, and petroleum.

LUMAPLAST®		YELLOW 4G	YELLOW 3G	YELLOW GG	YELLOW HM	ORANGE HRP	ORANGE GG	RED HFG	RED H3G	RED A2G	RED GGL	RED BB	RED 5B	RED VIOLET RV	VIOLET R	VIOLET B	BLUE 2B	BLUE RR	BLUE R	GREEN G	GREEN 5BL	BLACK K	BLACK KB	Nigrosin Base BA
	PMMA (Dye 0.02%)																							
	ABS (Dye 0.1%)																							
Color Index Generic Name		SY 98	SY 93	SY 114	SY 163	SO 60	SO 63	SR 149	SR 135	SR 179	SR 111	SR 195	SR 52	SV 59	SV 31	SV 13	SB 104	SB 97	SB122	SG 28	SG 3	SK 3	SK 27	SK 7
Physicals	Bulk density (mL/g)	9.8	7.6	9.5	5.4	38.4	6.7	3.7	14.5	3.3	19.9	3.6	7	21.2	2.2	8.4	14.9	17		13.5	9.9	17.2	18.7	-
	Melting point(°C)	107	185	264	177	228	169	267	307	255	163	204	270	186	285	185	244	200	251	245	205	-	235	275
	Sublimation (°C)	341	351	276	315	264	219	310	328	323	210	300	320	295	241	281	340	-	280	354	330	-	310	-
Solubility	Toluene	2	0.1	0.09	4.92	0.33	1	0.23	0.05	0.37	0.89	-	0.07	3.1	0.04	0.45	0.2	-	-	-	0.79	-	0.2	4.6
	Ethanol	0.01	0.96	0	0	0.01	0.1	<0.01	<0.001	0.01	0.05	0.08	0.01	0.15	0.01	0.02	0.04	0.03	-	<0.01	0.01	-	0.6	7
	Acetone	0.05	2.35	0.04	1.33	0.09	0.5	0.03	0	0.07	0.52	0.14	0.02	4.2	0.03	0.26	0.19	0.3	-	0.2	0.09	-	-	-
	Ethylacetate	0.09	1.4	0.04	1.2	0.12	0.5	0	0	0.1	0.54	-	0.02	-	0.04	0.25	-	1.1	-	0.45	0.18	-	0.3	2
	DOP	0.2	0.47	0.08	0	0.07	-	-	0.01	0.17	0.29	-	0.07	-	0.03	0.18	-	-	-	-	0.13	-	-	-
	THF	1.3	6.75	0.24	3.5	0.6	-	-	0.02	0.17	2.3	-	0.15	-	0.3	1.6	0.3	-	-	-	1.8	-	-	-
	MMA	0.44	1.13	0.09	-	0.21	-	-	0.01	0.88	0.82	-	0.06	-	0.05	0.5	-	2	-	1	0.4	-	-	-
Fastness	MEK	-	3.55	0.09	2.5	0.19	0.7	-	0.01	0.22	-	-	0.06	1.9	0.08	0.82	0.29	-	-	-	0.41	-	5	-
	Bleeding	5	5	4-5	5	5	4-5	4-5	5	5	4-5	4-5	5	5	5	5	-	5	5	5	5	4-5	4-5	-
	Heat	5	3	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	5	4-5	4-5	4-5	4-5	-	4-5	4-5	4-5	5	4	5	4
Limitation	Light	4-5	6-7	6-7	7-8	6-7	6-7	5-6	7-8	8	6-7	7-8	5-6	7-8	5	6-7	7-8	5-6	7-8	7-8	7-8	7-8	7-8	4-5
	R-PVC	R	HR	R	HR	HR	HR	R	HR	HR	R	R	HR	HR	R	HR	R	R	HR	R	HR	X	R	-
	PS	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR
	ABS	HR	X	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR
	PMMA	R	R	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	X	HR	HR	HR	HR	HR	HR	HR	HR	R
	PC	HR	HR	HR	HR	HR	R	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	X	HR	-
	PET	HR	X	R	HR	HR	R	R	HR	HR	R	HR	HR	R	X	HR	HR	HR	HR	HR	HR	X	HR	HR
	PA (Nylon 6)	HR	X	X	R	R	R	HR	HR	HR	R	R	HR	HR	X	R	HR	HR	X	R	HR	X	R	-
	PA (Nylon 6/6)	HR	X	R	R	R	R	X	HR	HR	X	X	X	X	X	R	R	X	X	R	HR	X	R	-

HR -Highly Recommended                      R - Restricted Application                      X - Not Recommended