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Manufacturer / Supplier:

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Company Sigmund Lindner GmbH has established a Quality Management System according DIN EN ISO 9001 since 1997.

Responsible:

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Description:

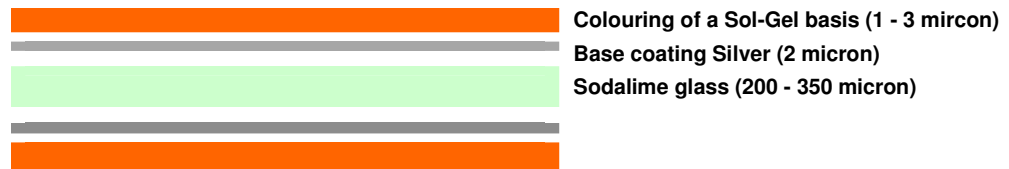
Glass Glitters, -Flakes, -Nuggets and Glass Beads made of Sodalime-glass, transparent (crystal clear) / without colouring or with surface colouring

Application of product: Effect material for decoration

Construction of the Article number:

Material	Size		Colour	Colouring option
10	80	—	288	LS

Construction of a Glass Glitter particle according to colouring option LS:



Chemical composition :

Weight Sodalime glass ≥ 98 %		(transparent/without colouring 100 %)		
Main components	Weight	CAS-No.	EINECS	CI-No.
Silicon dioxide SiO ₂	68,0 - 73,0 %	7631-86-9	231-545-4	---
Sodium oxide Na ₂ O	7,5 - 13,0 %	1313-59-3	215-208-9	---
Calcium oxide CaO	4,0 - 9,5 %	1305-78-8	215-138-9	---
Potassium oxide K ₂ O	0,2 - 6,5 %	12136-45-7	235-227-6	---
Magnesium oxide MgO	0,2 - 4,3 %	1309-48-4	215-171-9	---
Zinc oxide ZnO	0,0 - 4,3 %	1314-13-2	215-222-5	---
Aluminium trioxide Al ₂ O ₃	0,5 - 3,9 %	1344-28-1	215-691-6	---
Boric oxide B ₂ O ₃	0,0 - 4,4 %	1303-86-2	215-125-8	---
further				

Weight Colouring ≤ 2 %		(transparent/without colouring 0 %)		
Base Coating		CAS-No.	EINECS	CI-No.
Aluminium		7429-90-5	231-072-3	77000
Silver		7440-22-4	231-131-4	none

Surface Colouring	CAS-No.	EINECS	CI-No.
Pigment Yellow 83	5567-15-7	226-939-8	21108
Pigment Blue 15	147-14-8	205-685-1	74160
Pigment Blue 27	25869-00-5	247-304-1	77510
Pigment Black 7	1333-86-4	215-609-9	77266
Pigment Violet 23	6358-30-1	228-767-9	51319
Pigment Red 208	31778-10-6	250-800-0	12514
Pigment Red 146	5280-68-2	226-103-2	12485
Pigment White 6	13463-67-7	236-675-5	77891
Pigment Orange 34	15793-73-4	239-898-6	21115
Pigment Brown 25	6992-11-6	230-258-1	12510
Pigment Green 7	1328-53-6	215-524-7	74260
Solvent yellow 83:1	61116-27-6	none	none
Pigment White 20, 26	12001-26-2	310-127-6	77019
Pigment Black 11	1317-61-9	215-277-5	77499

Colouring options:

- W Surface coloured (not resistant)
- WI Surface coloured Pearl (not resistant)
- WS Base Coating Silver + surface coloured (not resistant)
- L Surface coloured (solvent resistant coating)
- LS Base Coating Silver + surface coloured (solvent resistant coating)
- LA Base Coating Aluminium + surface coloured (solvent resistant coating)

available Sizes:

Deco Beads			
Article	Diameter/tolerance	Spec. Weight	Bulk density
5211-xxx-x	0,04 – 0,07 mm	2,50 kg/dm ³	1,33 kg/dm ³
5212-xxx-x	0,07 – 0,11 mm	2,50 kg/dm ³	1,37 kg/dm ³
5213-xxx-x	0,09 – 0,15 mm	2,50 kg/dm ³	1,40 kg/dm ³
5214-xxx-x	0,10 – 0,20 mm	2,50 kg/dm ³	1,42 kg/dm ³
5215-xxx-x	0,15 – 0,25 mm	2,50 kg/dm ³	1,43 kg/dm ³
5216-xxx-x	0,20 – 0,30 mm	2,50 kg/dm ³	1,44 kg/dm ³
5220-xxx-x	0,20 – 0,40 mm	2,50 kg/dm ³	1,45 kg/dm ³
5223-xxx-x	0,30 – 0,40 mm	2,50 kg/dm ³	1,46 kg/dm ³
5218-xxx-x	0,40 – 0,60 mm	2,50 kg/dm ³	1,47 kg/dm ³
5219-xxx-x	0,40 – 0,80 mm	2,50 kg/dm ³	1,49 kg/dm ³
5222-xxx-x	0,60 – 0,80 mm	2,50 kg/dm ³	1,50 kg/dm ³
5225-xxx-x	0,80 – 1,00 mm	2,50 kg/dm ³	1,51 kg/dm ³
5226-xxx-x	1,00 – 1,30 mm	2,50 kg/dm ³	1,51 kg/dm ³
4501-xxx-x	0,25 – 0,50 mm	2,50 kg/dm ³	1,46 kg/dm ³
45015-xxx-x	0,40 – 0,60 mm	2,50 kg/dm ³	1,47 kg/dm ³
4502-xxx-x	0,50 – 0,75 mm	2,50 kg/dm ³	1,49 kg/dm ³
4503-xxx-x	0,75 – 1,00 mm	2,50 kg/dm ³	1,50 kg/dm ³
4504-xxx-x	1,00 – 1,30 mm	2,50 kg/dm ³	1,51 kg/dm ³
4505-xxx-x	1,25 – 1,65 mm	2,50 kg/dm ³	1,51 kg/dm ³
4506-xxx-x	1,55 – 1,85 mm	2,50 kg/dm ³	1,52 kg/dm ³
4507-xxx-x	1,70 – 2,10 mm	2,50 kg/dm ³	1,52 kg/dm ³
4508-xxx-x	2,00 – 2,40 mm	2,50 kg/dm ³	1,53 kg/dm ³
4510-xxx-x	2,40 – 2,90 mm	2,50 kg/dm ³	1,53 kg/dm ³
4511-xxx-x	2,85 – 3,45 mm	2,50 kg/dm ³	1,53 kg/dm ³
4512-xxx-x	3,40 – 4,00 mm	2,50 kg/dm ³	1,53 kg/dm ³
4513-xxx-x	3,80 – 4,40 mm	2,50 kg/dm ³	1,53 kg/dm ³
5002-xxx-x	1,30 – 1,70 mm	2,50 kg/dm ³	1,47 kg/dm ³
5003-xxx-x	1,80 – 2,20 mm	2,50 kg/dm ³	1,47 kg/dm ³
5004-xxx-x	2,30 – 2,70 mm	2,50 kg/dm ³	1,47 kg/dm ³
5005-xxx-x	2,70 – 3,30 mm	2,50 kg/dm ³	1,46 kg/dm ³

available Sizes:

Deco Beads				
Article	Diameter/tolerance	Spec. Weight	Bulk density	
5006-xxx-x	3,20 – 3,80 mm	2,50 kg/dm ³	1,46 kg/dm ³	
5009-xxx-x	3,70 – 4,30 mm	2,50 kg/dm ³	1,46 kg/dm ³	
5010-xxx-x	4,20 – 4,80 mm	2,50 kg/dm ³	1,45 kg/dm ³	
5011-xxx-x	4,70 – 5,30 mm	2,50 kg/dm ³	1,45 kg/dm ³	
5012-xxx-x	5,70 – 6,30 mm	2,50 kg/dm ³	1,45 kg/dm ³	
5013-xxx-x	6,70 – 7,00 mm	2,50 kg/dm ³	1,44 kg/dm ³	
Glass-Flakes				
Article	Size particle	Gauge	Spec. Weight	Bulk density
1240-xxx-x	45 – 300 µm	5 µm	2,52 kg/dm ³	0,32 kg/dm ³
1280-xxx-x	45 – 1700 µm	5 µm	2,52 kg/dm ³	0,20 kg/dm ³
Glass-Glitter				
Article	Size particle	Gauge	Spec. Weight	Bulk density
1040-xxx-x	1,40 – 1,80 mm	0,20 – 0,35 mm	2,38 kg/dm ³	1,20 kg/dm ³
1050-xxx-x	1,25 – 1,60 mm	0,20 – 0,35 mm	2,38 kg/dm ³	1,25 kg/dm ³
1060-xxx-x	0,90 – 1,40 mm	0,20 – 0,35 mm	2,38 kg/dm ³	1,25 kg/dm ³
1070-xxx-x	0,50 – 0,90 mm	0,20 – 0,35 mm	2,38 kg/dm ³	1,30 kg/dm ³
1080-xxx-x	0,30 – 0,60 mm	0,20 – 0,35 mm	2,38 kg/dm ³	1,30 kg/dm ³
1090-xxx-x	0,25 – 0,40 mm	0,20 – 0,35 mm	2,38 kg/dm ³	1,35 kg/dm ³
1100-xxx-x	0,20 – 0,30 mm	0,20 – 0,35 mm	2,38 kg/dm ³	1,35 kg/dm ³
Glass-Nuggets				
Article	Grain size	Spec. Weight	Bulk density	
1520-xxx-x	2,50 – 4,00 mm	2,50 kg/dm ³	1,40 kg/dm ³	
1530-xxx-x	0,80 – 1,20 mm	2,50 kg/dm ³	1,35 kg/dm ³	
1540-xxx-x	0,50 – 1,50 mm	2,50 kg/dm ³	1,35 kg/dm ³	
1580-xxx-x	0,30 – 0,60 mm	2,50 kg/dm ³	1,25 kg/dm ³	

Further sizes available by request

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Standard Colours (according to Pantone) / Pigments:

Colours	CI
007E Black	77499
021 orange	21115
107 yellow	21108
110 gold (Colouring W, WS)	Solvent yellow 83:1 21108 21115
110 gold (Colouring L, LA, LS)	21108
111 chartreuse	21108 74160 77266
123 day glow yellow	day glow pigment
124 night glow	night glow pigment
142 pearl gold	pearl pigment
145 antique gold	21108 12510
157 copper	21108 21115
164 red copper	21108 12514
178 salmon	12485 21108
183 dark copper	21108 12485
188 pearl lava	pearl pigment
187 red (Colouring W, L, LA)	12514
187 red (Colouring WS, LS)	12514 21115
195 wine red	12514 12485 77266
196 nude pink	77891 12514 21108
211 pink	12485
217 light rose (Colouring W, L, LA)	77891 12485
217 light rose (Colouring WS, LS)	12485
220 red fuchsia	12485
224 day glow pink	day glow pigment
234 fuchsia	12485 51319
255 purple	12485 51319
261 purple	12485 51319
263 light lavender	77891 12485 51319
264 lavender (Colouring W, L, LA)	77891 12485 51319
284 prussian blue	77510
301 medium blue	74160
302 dark blue	74160 51319
312 ice blue	74160 21108
313 aqua	74260 21108 74160 77266
315 turquoise	74160 21108
341 green	74260 74160
347 yellow green	74260 21108 74160
349 grass green	21108 77266 74260
374 kellygreen	74260 21108

Colours	CI
427 pearl ice	pearl pigment
429 aluminium (Colouring LA)	77000
441 light grey	77891 21108 77266 74260
446 greenish grey	77891 21108 77266 74260 12514
482 pearl off white (Colouring WI)	77891 77019
491 brown	12510 12514 77266
504 bronze	12514 77266 74160
581 military green	21108 77266 74160
695 pearl autumn	pearl pigment
802 day glow green	day glow pigment
811 day glow organe	day glow pigment
877 silver (Colouring WS)	---
999 white	77891

Further colours available by request

weather-proofed Colours *)	CI
01 transparent (crystal clear)	without colouring
007 black	77266
264 lavender (Colouring WS, LS, L)	51319
267 dark purple	51319
285 light blue	74160
288 blue	74160
291 sky blue	74160
346 light green	74260
877 silver (Colouring LS)	---

Resistance:

Medium	Condition	Result W /WS	Result L /LS /LA
Temperature	up to 175°C	resistant	resistant
MEK (Methyl Ethyl Ketone; 99%)	15 min	not resistant	resistant
Isopropanol (25%)	15 min.	not resistant	resistant
Isopropanol (70%)	15 min.	not resistant	resistant
Demineralized H ₂ O	3 months	not resistant	resistant
Exposure test according to DIN EN ISO 4892-2	1000 hours (equal to 1 year central european climate)	resistant*)	resistant*)
light fastness			

*) tested Pigments: CI 51319, CI 73915, CI 74160, CI 74260, CI 77266

Storage indication: Store in a dry manner in closed (original) container by room temperature. We recommend storage life of maximum 2 years.

Disposal information: There is no type of waste that occurs due to the product that requires special supervision according to (EU) No. 1357/2014 guideline.

Further information: Safety Data Sheets
 Sample Cards SiLiglit Deco Beads, Glass Glitter / Glass Nuggets

Product trials and stability tests are always recommended and are the responsibility of the customer prior to production. All data are reference values – subject to change without prior notice.