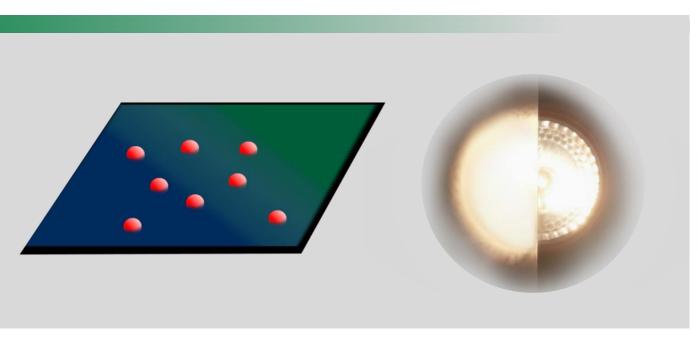


# **Sylysia**

Surface effects in coatings and masterbatch applications

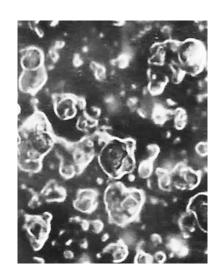


**Anti-blocking** 

**Light diffusion** 

### Surface texturing with SYLYSIA silica powders

Sylysia micronized silica powders are used as easy-to-disperse texturing agents for thin film coating applications. The controlled particle sizes and sharp particle size distributions make Sylysia the ideal tool to homogeneously structure surfaces and to enhance surface grip without impairing the surface quality with coarse particles.



#### **Product properties**

- Micronized, amorphous silica powders
- Free flowing, white and odorless
- Non-toxic and chemically inert
- Variable particle sizes and pore volumes
- Narrow particle size distributions
- Approved for food contact applications

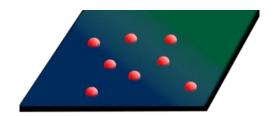
Loss on drying:  $\leq 5\%$ wt. Specific gravity (SiO<sub>2</sub>): 2.15 pH-value:  $7\pm1$ 

SYLYSIA grade	average particle size	pore volume	surface area	
	μm	ml/g	m²/g	
SY 290 N/11	11	1.8	300	
SY 450 C	10-14	1.2	600	
SY 470 L	14-19	1.2	600	



### Anti-blocking with SYLYSIA silica powders

Various kinds of plastic films tend do strongly adhere to each other, when rolled or piled (blocking). The addition of Sylysia to the formulation effectively minimizes this problem.



SYLYSIA grade	average particle size	pore volume	surface area	
	μт	ml/g	m²/g	
SY 310 P	2.6	1,6	300	
SY 350	3.9	1.6	300	
SY 430	4.1	1.2	600	
SY 440	6.2	1.2	600	

Loss on drying:  $\leq$  5%wt. Specific gravity (SiO<sub>2</sub>): 2.15 pH-value:  $7\pm1$ 

### **Application Examples**

#### **Anti-blocking with SYLYSIA silica powders**

· Recommended anti-blocking additives in plastic sheets and foils

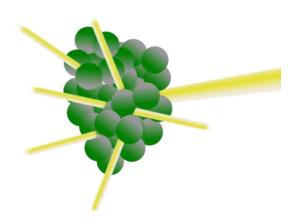
SYLYSIA grade	iPP	сРР	оРР	PET	PE	PVC	Nylon	Others
SY 310 P			+	++		+	++	+
SY 350	++	++	++	++	++	+	++	+
SY 430	+	++		++	+		++	+
SY 440	+	+		++	+		++	+



## Light diffusion in plastic sheets and foils

With a refractive index of n = 1.46, SYLYSIA silica powders are used as a very cost-efficient light scattering agent for

cost-efficient light scattering agent for **PS** and **PC** sheets and foils.





The controlled and variable internal pore structure efficiently increases the achievable degree of diffusion. This makes SYLYSIA suitable for applications, where a high haze is needed.

#### **Product properties**

- Micronized, amorphous silica powders
- Free flowing, white and odorless
- SYLYSIA powders are dry, wax-free, temperature stable, chemically inert and thus well suited for the incorporation in masterbatches.
- Variable particle sizes and pore volumes

Loss on drying:  $\leq$  5%wt. Specific gravity: 2.15 pH-value: 7

SYLYSIA grade	average particle size	pore volume	surface area	
	μm	ml/g	m²/g	
SY 320	3.3	1,6	300	
SY 350	4.0	1.6	300	
SY 240 N	5.0	1.8	300	



#### **Contact**

- Customer-specific requirements need individual solutions.
- We can offer you support and advice for the start of your development work.
- Do you need more information?
   The FINMA team is looking forward to your contact.

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