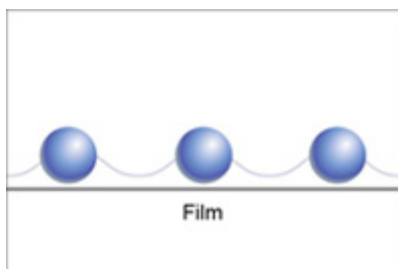


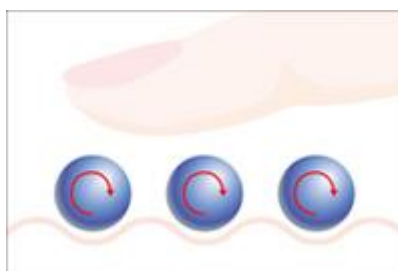
TECHNICAL DATA**CANDIFFUSE****CANDIFFUSE SI MICRO POWDER**

CANDIFFUSE SI is a spherical, organosilicon micro powder based on Polymethylsilsesquioxane (PSMQ). As micro powder CANDIFFUSE SI has a fine and narrow particle-size distribution. CANDIFFUSE SI scores with excellent chemical and physical properties. That includes an **excellent resistance to chemicals and solvents**. Furthermore, CANDIFFUSE SI silicone micro powder possesses **high temperature stability**.

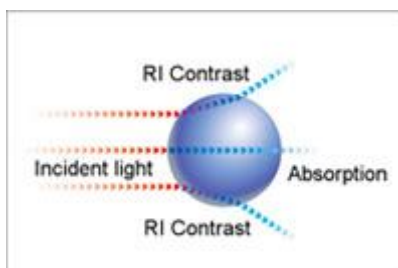
Due to the hydrophobic character, it will be achieved a **water-repellent effect** by CANDIFFUSE SI. Additionally, CANDIFFUSE SI offers **high optical performance** like excellent light diffusion properties for translucent plastics. CANDIFFUSE SI spherical silicone micro powder is free-flowing and easy to incorporate in coatings, plastics and rubber.



Antiblocking



Lubricant



TECHNICAL DATA

CANDIFFUSE

Light diffuser



Coating



LED light cover

PROPERTIES:

- High temperature stability
- Resistant to most organic solvents
 - No swelling
- Excellent optical properties / Light diffuser
- Fine and narrow particle-size distribution
 - Perfect resistance to chemicals
- Great flow- und dispersing properties
 - Water-repellency

TECHNICAL SPECIFICATIONS:

- **Basis:** Polymethylsilsesquioxan (PMSQ)
 - **CAS-number:** 68554-70-1
 - **Appearance:** White powder
 - **Refractive index:** 1,42
 - **Density:** 1,32 g/cm³
 - **Melting Point:** > 400 °C

TECHNICAL DATA

CANDIFFUSE

	Basis	Average size	Usage						
			1	2	3	4	5	6	7
CANDIFFUSE SI 508	PMSQ	0.8 μm	✓				✓	✓	
CANDIFFUSE SI 520	PMSQ	2 μm	✓	✓			✓	✓	✓
CANDIFFUSE SI 540	PMSQ	4 μm	✓	✓	✓	✓			✓
CANDIFFUSE SI 560	PMSQ	6 μm	✓		✓	✓			✓
CANDIFFUSE SI 580	PMSQ	8 μm	✓		✓				✓
CANDIFFUSE SI 710	PMSQ	10 μm	✓	✓	✓				✓
CANDIFFUSE SI 715	PMSQ	15 μm	✓	✓	✓				

1: Optical Foil / Film · 2: Rubber · 3: Coatings & Paints · 4: Leathercoating · 5: PC & PS
Compounds · 6: PMMA Compounds · 7: PP/PE Foil

APPLICATIONS:

POLYOLEFIN FOIL

- Antiblocking and slip
- Excellent transparency, no haze
 - No migration
- High temperature stability , hot slip

COATINGS

- Perfect lubricant / slip
- Excellent resistance to scratching
 - Water-repellence
 - Good haptic

PLASTICS & COMPOUNDS

- Effective light diffuser for PP, PC, PS & PMMA
 - Homogeneous light distribution

TECHNICAL DATA

CANDIFFUSE

- Excellent light scattering
- Light diffuser in foils and films

RUBBER

- Lubricant
- Improvement of resistance to abrasion

RESINS

- Excellent optical properties
 - Lubricant
- Resistance to abrasion

WAX

- Enhancement of spreadability
 - Lubricant

TECHNICAL DATA

CANDIFFUSE

CANDIFFUSE PMMA MICROBEADS

CANDIFFUSE PMMA microbeads are based on a network of Polymethylmethacrylate (PMMA) with a narrow and homogeneous particle-size distribution. Several grades with particle-sizes from 5 µm up to 50 µm are available. CANDIFFUSE are characterized by high resistance to temperature and solvents. Additionally, scratch resistance of your product is improved by CANDIFFUSE. Due to the good affinity to resin and solvents, as well as food approval the PMMA microbeads are used in a wide field of applications.

PROPERTIES:

- High luminance
 - Resistance to organic solvents
 - Excellent resistance to scratching
- Amazing optical properties / Light diffuser
 - Antiblocking and slip
 - Perfect lubricant
- Great flow- and dispersing properties
 - Gloss control
 - Delustering agent
 - High transmittance

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TECHNICAL SPECIFICATIONS:

- **Basis:** Polymethylmethacrylate
- **Appearance:** White powder
 - **RI:** 1,49
 - **Density:** 1,2 g/cm³
 - **Water content:** < 1%
- **Temperature resistance:** 260–270 °C / 300–310°C

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Particle sizes / d50:

5µm | 10 µm | 15 µm
20 µm | 25 µm | 30 µm | 40 µm | 50 µm

TECHNICAL DATA

CANDIFFUSE

APPLICATIONS:

FOILS AND FILMS

- High luminance
- Light diffuser
- High transmittance
- Antiblocking
- Slip

COATINGS

- Delustering agent
- Surface texturing
- Resistance to scratching
- Good haptic "soft feel"
 - Gloss control
 - Antiblocking

PLASTICS & COMPOUNDS

- Light diffuser
- High transmittance
- Excellent light scattering
- Improvement of impact strength depression
 - Enhancement of rheology