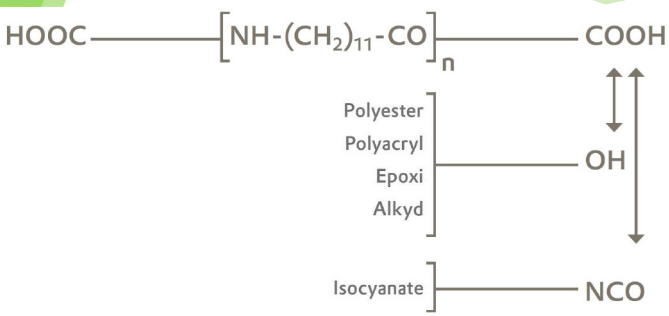
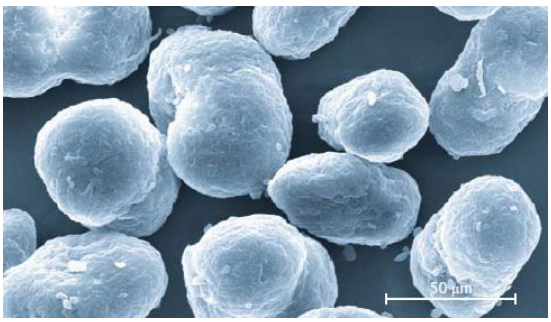
Polyamid Seeding Particles





Physical properties

PROPERTY	TEST METHOD	UNIT	POLYAMID
MELTING TEMPERATURE	ISO 3146	°C	184
DENSITY 23°C	ISO 1183	g/cm³	1.016
SHORE HARDNESS D	ISO 868		75
BALL INDENTATION HARDNESS	ISO 2039-1	N/mm³	90
WATER ABSORPTION	ISO 62	%	
100°C, IMMERSION			1.93
23°C, 96% R.H.			1.33
23°C, 50% R.H.			0.52
ABRASION	DIN 53754 (Taber)	mg/100turns	<1
REFRACTIVE INDEX N_D 589/20°C	DIN 53491		1.52

Electrical properties

PROPERTY	TEST METHOD	UNIT	VALUE DRY	WET*
RELATIVE PERMITTIVITY 23°C/ 1MHZ	IEC 60250		3.8	6.7
DISSIPATION FACTOR 23°C/ 1MHZ	IEC 60250		5×10^{-2}	17×10^{-2}
VOLUME RESISTIVITY	IEC 60093	Ω cm	7×10^{14}	3×10^{12}
BREAKDOWN VOLTAGE	IEC 60243-2	kV	12-14	
ELECRIC STRENGTH K20/P50	IEC 60243-1	kV/mm		92

*after immersion in water at 23°C

Optical properties

REFRATION RATE	**%**	**1.55**

Data Sheet
June 2024

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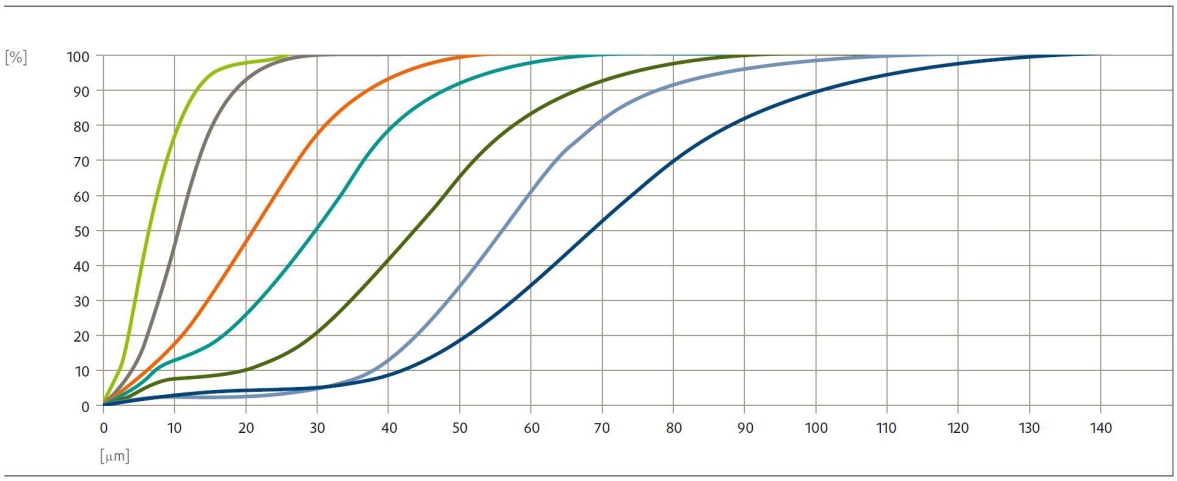
Polyamid Seeding Particles

Typical particle size distribution of selected Polyamid Seeding Particles



Average of the lot, measured with laser diffraction Malvern Mastersizer.

Environmental impact and safety

Polyamid Seeding Particles are non-toxic, do not require mandatory labeling under the German Hazardous Substances Ordinance, and are non-water-polluting. They do not contain any heavy metals. They can be disposed of in landfills or incinerated as normal household waste in accordance with local ordinances. Polyamid Seeding particles are properly processed, no hazardous by-products are formed. Cadmium-containing pigments are not used at all. Polyamid Seeding Particles are combustible. At mass temperatures above 350 °C, flammable gases are formed by degradation. Combustion with sufficient air supply yields CO, CO2 , H2 O and nitrogencontaining compounds as end products. Since the spectrum of cracking and combustion products greatly depends on the combustion conditions, it is not possible to make any general statements here.

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