



AUTOMATED STICKIES MEASUREMENT METHOD

- > Determination of the 3D morphology of screened particles
- > Classification of the particles as stickies among contaminants
- > Stickies classification by a combination of laser triangulation and local near-infrared (NIR) spectroscopy
- > Provides rich information on chemical nature of the stickies
- > Practical, repeatable, and responsive

RICHER INFORMATION

- > 3D Morphology
- > Macro contaminants classified by their chemical nature
- > No restriction to stickies (plastics)



NON CONTACT METHOD

- > Stickies are not pressed
- > Real size is measured
- > link to exposure index

INGEDE METHOD #4

- > Pressing deformation and time consumption
- > No 3D Information
- > No information on nature

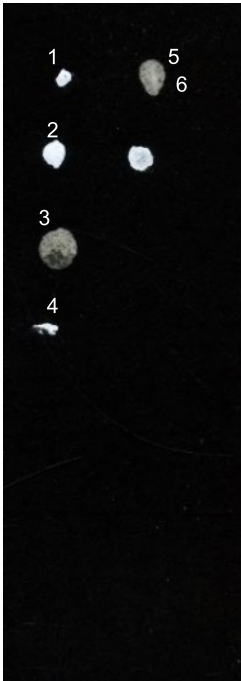


STICKIES PARTICLES

- > Most harmful mini-stickies are mainly PSA (Pressure Sensitive Adhesives)

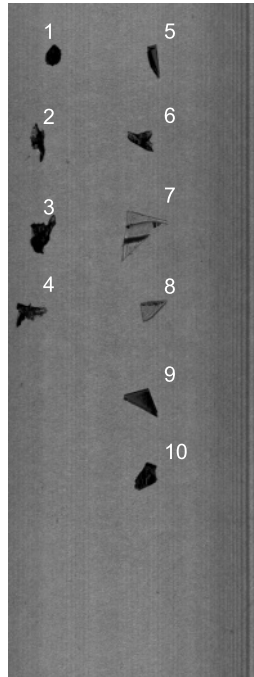


TAPPI



- > Determination of the 3D form of the contaminants (3D topography)
- > The form remains intact

3D STICK



- > Contaminants crushed
- > Contaminants chemically undetermined

EXAMPLES OF CONTAMINANTS

- > 1- PVA-Homopolymer
- > 2- VAE / Acrylic aqueous dispersion
- > 3- Hotmelt, EVA based
- > 4- PSA acrylic based
- > 5- Hotmelt, EVA based
- > 6- Hotmelt, hydrocarbon resins
- > 7- Polyethylene (PE)
- > 8- PET (polyethyleneterephthalate)
- > 9- PET
- > 10- Polystyrene (PS)

POLYMER DATABASE

- > Number of registered substances : 42 (delivery state, flexibility supplemented)
- > Speed for measuring strip 290 x 26 mm : 300 objects in 20 minutes / 10 objects in approx 5 minutes



TECHNICAL CHARACTERISTICS OF 3D STICK

Laser beam:	Beam width (in Y) 26 mm Height range (in Z) 1.6 mm Resolution (in Z) 3 microns Resolution (in X) 20 microns Resolution (in Y) 20 microns
Operating system:	Software running under WINDOWS
Power supply:	220V/50 Hz or 110V/60 Hz, 50W
Dimensions:	610 mm (l) x 500 mm (w) x 500 mm

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