

<u>Help</u>

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	ich of the following samples are suitable for the use of a mechanical surface profilometer?
✓	Hard metallic or ceramic surfaces
	Soft organic and inorganic surfaces
~	Solid polymeric surfaces
	Liquid samples
~	
Solid mech risk o	nation surfaces of metals, semiconductors, ceramics or polymers are suitable to be measured by means of a anical surface profilometer. Contrarily, mechanical probing of soft materials is less common due to the f damages from scratching and in liquid environments capillary forces and damping can distort the urement.
For fu	urther information, please see video "Mechanical surface profile measurement" at 02:07. © All Rights Reso
2. Is the polyter of	he mechanical surface profilometry introduced in the video suitable to measure the extent of under a recinique federale de Lausame. All rights reserved except where noted, edx, Open edx and their respective logos are sufficiently and their respective logos.
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	Yes
O	No
~	
Expla	nation
	ng as the mask is on top of the etched material, it is not possible to "see" below the mask. Irther information, please see video "Mechanical surface profile measurement" at 02:30.
3. Ho	w is the cantilever deflection measured in an AFM?
0	With a piezo actuator that keeps the cantilever at constant distance from the surface.
0	With a laser focused onto the backside of the cantilever and a detector that measures the laser beam deflection.
	With the linear variable differential transformer (LVDT), which is attached to the cantilever.
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For further information, please see video "Mechanical surface profile measurement" at 04:22.

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