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## Discover art photonics range of **ATR fiber probes for lab applications:**

IR fiber ATR probes with PEEK shaft are cost effective and perfect for use in small lab reactors and open vessels.

All ATR probes are compatible with any type of FT-IR and other IR-spectrometers, photometers and sensors.

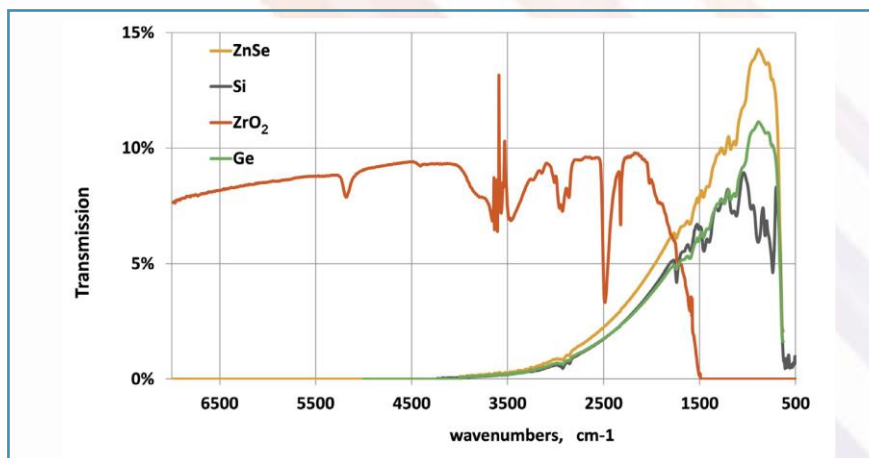
### Applications

- Reaction monitoring in real time
- Remote polymerization control
- Crystallization process screening
- In-situ IR-spectroscopy for soft surfaces, pastes and liquids

### Features

- Evanescent absorption spectra without dead zone problems
- Optimal ATR- crystal selection to match customer application
- Cost effective solution for in-line reaction monitoring

### Transmission spectra



Transmission spectra of PEEK probes with different ATR elements.  
Probe length: 1.5m

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### Specifications

Type of ATR element	Type	Transmission range	Temperature range	Pressure (max)
Ge	PIR 900/1000	3.2 – 17 $\mu\text{m}$ 3100-600 $\text{cm}^{-1}$	- 100°C / + 80°C	7 Bar
ZnSe	PIR 900/1000	3.2 – 17 $\mu\text{m}$ 3100-600 $\text{cm}^{-1}$	- 100°C / + 140°C	7 Bar
Si	PIR 900/1000	3.2 – 17 $\mu\text{m}$ 3100-600 $\text{cm}^{-1}$	- 100°C / + 140°C	7 Bar
ZrO <sub>2</sub>	CIR 500/550	1.1 – 6.5 $\mu\text{m}$ 9000-1550 $\text{cm}^{-1}$	- 100°C / + 90°C	7 Bar

### Parameters



<b>Total length</b>	1.5m (opt.:1m to 5m)
<b>Shaft length</b>	150mm (opt.: 100mm to 500 mm)
<b>Shaft diameter</b>	6.3mm
<b>Shaft material</b>	PEEK
<b>Length of legs</b>	500mm (opt.: 200mm to 500mm)
<b>Protective tube material</b>	PEEK
<b>Minimal bending radius</b>	130mm
<b>Input/output connectors</b>	Long SMA (opt.: any other type)

