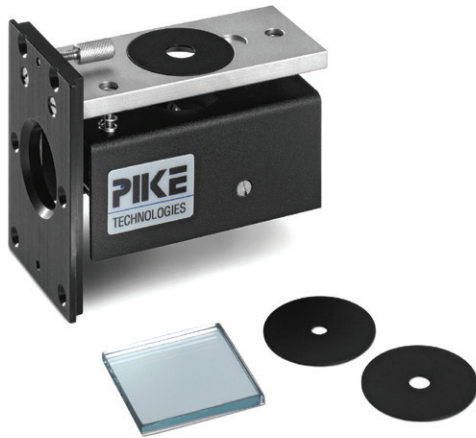


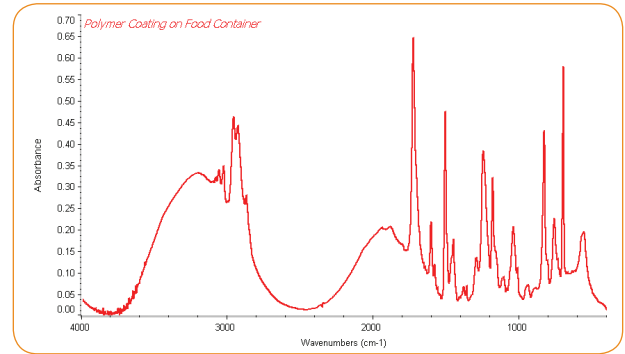
# 30Spec and 45Spec – Specular Reflectance for Thick Films



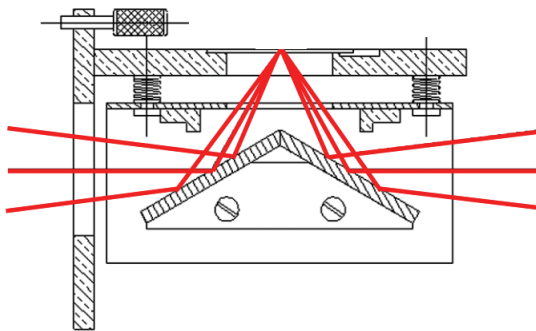
The PIKE Technologies 30Spec is ideal for the measurement of relatively thick films by specular reflectance. Samples are simply laid across the top of the accessory and the spectrum of the film is measured within a short time period. The 30Spec includes sample masks of 3/8", 1/4" and 3/16" to define specific sampling areas. The 30Spec provides high-quality FTIR spectra for identification of coatings and can also be used to measure coating thickness. IR throughput is high using the 30Spec due to its relatively simple optical design.

## FEATURES

- Measurement of thick films
- Measurement of film thickness by specular reflectance
- Fixed 30 degree angle of incidence
- Special version – 45Spec for 45 degree angle of incidence
- Sample masks to define sampling area
- Slide-mount design for easy installation of accessory – fits all FTIR spectrometers



FTIR spectrum of polymer coating on a food container collected using the PIKE 30Spec.



Optical geometry for the 30Spec.

## SPECIFICATIONS

<b>Optics</b>	All reflective
<b>Angle of Incidence</b>	30 degrees or 45 degrees
<b>Sample Masks</b>	3/8", 1/4" and 3/16"
<b>Dimensions (W x D x H)</b>	51 x 96 x 77 mm
<b>Mount</b>	2" x 3" slide mount

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
011-1000	30Spec – 30 Degree Specular Reflectance Accessory Includes sample masks (3/8", 1/4", and 3/16"), alignment mirror and slide-mount
011-4500	45Spec – 45 Degree Specular Reflectance Accessory Includes sample masks (3/8", 1/4", and 3/16"), alignment mirror and slide-mount

Note: The 30Spec and 45Spec are slide-mount accessories.

## 30SPEC AND 45SPEC SAMPLING OPTIONS

PART NUMBER	DESCRIPTION
011-2010	Sample Masks (3/8", 1/4", and 3/16")
300-0039	Aluminum Substrate Alignment Mirror

Note: Sample masks and alignment mirror fit both 30Spec and 45Spec.