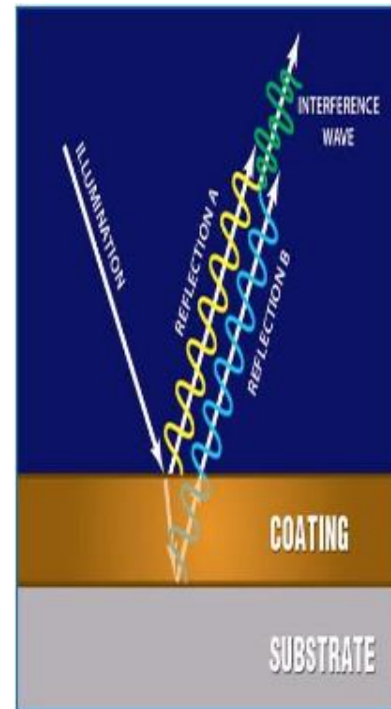**Thank you for this opportunity
to present our award-winning SpecMetrix®
thin film and coating thickness
measurement systems**

Technology by SENSORY ANALYTICS
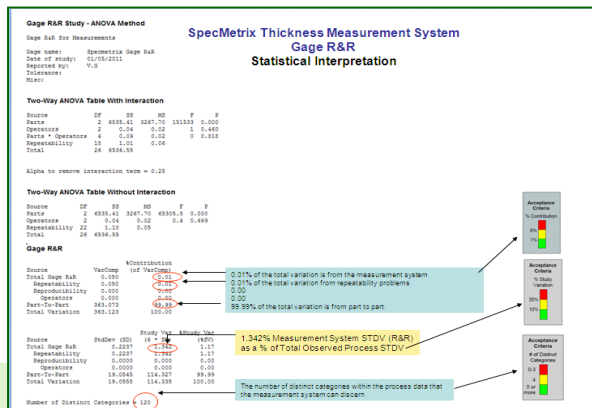
Exclusive ROI Optical Measurement Technology

❖ Proprietary 'ruggedized optical interference' technology

❖ Absolute thickness measurement

❖ Substrate independent

❖ Non-contact and non-hazardous

❖ Offline and in-line measurement

❖ Measures clear and opaque coatings

❖ Thickness measurement range:
  • 0.2 to 250 microns

Superior Gage R&R Results

❖ Determines how much measurement variability due to gauge and if thickness variability is coming from gauge or from operation

❖ If selected gauge not repeatable/reproducible, then it is not advised to make process changes based on data from that gauge

❖ All SpecMetrix systems ship with verified Gage R&R results of <5%

Gage R&R Result	Acceptability
<10%	Excellent
10% < R&R < 20%	Marginally Acceptable
20% < R&R < 30%	Conditionally Acceptable
>30%	Not Acceptable

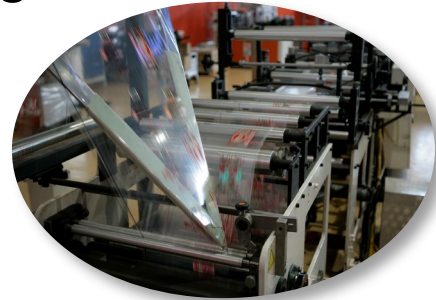# Selected SpecMetrix Certified Films & Coatings

❖ **Base Substrates:**
- Pet, Bopp, Opp, metalized, foil, nylon and optical & solar films, PE, plastics, primed papers, release liners and cast films

❖ **Coatings:**
- Silicone, barrier, scratch resistant, anti-fog, printable, heat sealable primers, conformal, electronic inks, organic, Ti02 and other performance coatings

❖ **Adhesives:**
- Solvent, water base, hot melt, permanent, pressure sensitives

SpecMetrix Lab Systems
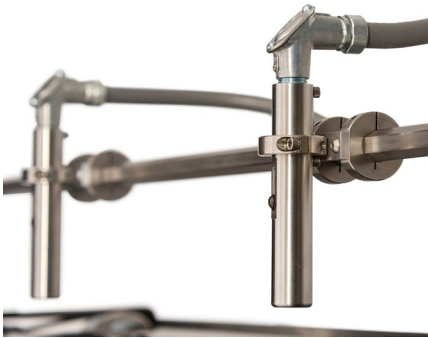
Advanced Lab System

Enhanced Lab System

- ❖ Streamline coating QA
- ❖ Customer claim forensics
- ❖ Non-contact and non-destructive measurement
- ❖ Faster sample testing and in-process set-up/QC checks

SpecMetrix In-Line Systems

Fixed Probe System Configurations

Traversing System Configurations

- ❖ Continuous, in-process coating QA
- ❖ 100+ measurements per second, per probe
- ❖ Streamline changeover times and reduce waste
- ❖ OEM integration or direct installation options

SpecMetrix In-line Systems – Operating Software Features

❖ Easy to use coating recipe editor
- Reduces operator involvement and setup time
- No calibration required before each run

❖ Easy data integration to coater and plant systems
- OPC and PLC communications are available through Kepware standard interface software with standard tag ID's

❖ 24/7 on-line support via Teamviewer

❖ Host country language options

❖ Secured user/administrative levels

Summary

- ❖ Robust and accurate real-time absolute thickness measurements
- ❖ Provides e-record of web data from each run
- ❖ Recipe based software encourages adherence of operators
- ❖ Non-contact, non-destructive and low maintenance alternative
- ❖ Measures wet or dry and discrete layers, even in sub-micron range
- ❖ Better throughput, with no need to stop the line for off-line testing
- ❖ Data integration and batch start/stop coordination
- ❖ Direct remote assistance for recipe questions, analysis
- ❖ Improve product quality, optimize process control
- ❖ Reduced costs by minimizing over application and waste stream

spec**METRIX**®

Technology by **SENSORY ANALYTICS**

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