



# Continuing Education - short module - Materials characterization

## KEY WORDS

POLYMER CHARACTERIZATION,  
SPECTROSCOPY,  
FIRE BEHAVIOR

## MAIN CONTENTS

Introduction to polymer characterization.  
Physicochemical characterization of polymers: general principles.  
Thermal analysis of polymers.  
Spectroscopy.  
Behavior in the presence of fire.

## COURSE DYNAMICS

This course offers a comprehensive overview of polymer characterization, combining theory and lab practice. It covers mechanical tests (tensile, flexural, impact, hardness, MFI), TGA/DSC, chromatography, spectroscopy (Raman, IR, UV-Vis), microscopy, formulation analysis, and fire behavior tests (UL94, LOI, cone calorimeter), with focus on safety, data interpretation, and experimental analysis.

## LANGUAGE

French

## CONTACT US

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<b>Topic area</b> Materials characterization	<b>Format</b> Lectures, workshops, laboratory work – 84hs
<b>Level</b> Short course	<b>Training certificate</b>