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raman spectroscopy 'rɑ:mən named after indian physicist c v raman is a spectroscopic technique typically used to determine vibrational modes of

molecules although rotational and other low frequency modes of systems may also be observed 1 raman spectroscopy is commonly used in chemistry to provide a structural fingerprint by which molecules can be sep 10 2022 raman theory if one can extract all of the vibrational information corresponds a molecule its molecular structure can then be determined in the field of spectroscopy two main techniques are applied in order to detect molecular vibrational motions infrared spectroscopy ir and raman spectroscopy raman spectroscopy is a valuable tool for qualitative and quantitative polymeric membrane characterization the interactions among the functional groups chain

orientation structural changes upon treatment modification and interfacial properties of the polymeric composite are some of the interesting information that can be revealed from the raman spectra raman spectroscopy is ideal for the recording the differences in the two forms and in measuring the forms while optimizing and during the crystallization process polymerization raman spectroscopy tends to provide a stronger signal than ir from the molecular backbone especially double and triple carbon bonds for this reason raman can be a better choice for identifying raman spectroscopy is a molecular spectroscopic technique that utilizes the interaction of light with matter to gain insight into a material's make up or characteristics like ftir the information provided by raman spectroscopy results from a light scattering process whereas ir spectroscopy relies on absorption of light it is named after the indian physicist c v raman who together with his research partner k s krishnan was the first to

observe raman scattering in 1928 raman spectroscopy can provide both chemical and structural information as well as the identification of substances through their characteristic raman fingerprint raman spectroscopy extracts this information through the in general raman is a non destructive technique and works on a variety of sample forms e g solution solid gel and film raman spectroscopy provides highly specific chemical information and does not require sample preparation in order to make a measurement raman is a universal sampling technique and therefore works for both inorganic and organic materials however since it is based on the rather weak raman effect other spectroscopic effects and certain material properties can critically interfere in case of sample fluorescence the sample won't yield a nice raman spectrum raman microscopy  $\mu$  raman is the combination of conventional light microscopy and a unique chemical identification by raman spectroscopy

both techniques are quite powerful on their own but when combined they offer the possibility to chemically examine smallest objects 0.5  $\mu\text{m}$  and thus they link spectral with spatial information  
aug 28 2022 raman can provide information on the metal ligand bond leading to knowledge of the composition structure and stability of these complexes this can be particularly useful in metal compounds that have low vibrational absorption frequencies in the ir raman is also very useful for determining functional groups and fingerprints of organic molecules

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