



PSG Institute of Technology and Applied Research

Neelambur, Coimbatore – 641 062.

Polymer Engineering Laboratory

REQUISITION FORM FOR ATR-FTIR SPECTROMETER ANALYSIS

1. Name of the User (Mr./ Ms. / Dr.) :
Designation & Dept./Division
2. Internal (PSG iTech) / External /Industry :
3. Institution / Industry name and address :
4. Email ID :
5. Phone No. / Mobile No. :
6. Purpose UG / PG / Ph.D Work / Research / Others(Please mention):
7. Number of Samples :
8. Nature of Sample : Solid / Liquid / Fiber / Crystal / resin / film
9. Type of sample : Organic / inorganic
10. Solubility data (if any) :
11. Mode required/Spectrum range : Transmittance / Absorbance, _____cm⁻¹
12. Sample requirement : Powder – 100mg; Liquid – 10ml
13. Amount paid (including 18% GST) :
14. Billing address (provide GST if any) :

Certified that the request is for academic/research purpose. Further, it is certified that the sample(s) do not pose a health risk.

Date:

Signature of the User

Signature of the Guide/

Head of the Department

For office use only	
Ref. No. Mode of payment :	Job carried out by:Mr./Ms./Dr.
Job completed on :	Remarks:

Rules and Charges for using ATR-FTIR spectrometer analysis facility at PSG iTech

1. Services can be availed on charge basis.
2. Prior registration with advance payment is essential to avail the facilities.
3. Appointment will be given as per queue
4. For a better analysis basic details about the sample to be provided.
5. Bank details for NEFT/RTGS: Central Bank of India, **A/c. No.1481267447**,
IFSC code: CBIN0280913 / DD or cheque drawn should be in the name of “PSG Centre for Sponsored Research and Consultancy” **OR** G-pay to the above account. (**Payment confirmation to be attached along with requisition form and samples**)
6. The samples may be sent by courier along with payment details. Results will be sent by email and receipt may be collected later.
7. All the tested samples will be destroyed after testing immediately.
8. Analysis charges

User	Charges#
Academic institutions	Rs.100/-
Research centre / Industry	Rs.350/-
# 18% GST to be added along with the charges	

Researchers from various institutions are welcome to use these facilities. Those who want to avail these facilities are requested to fill the job requisition form (Downloadable from website: <http://www.psgitech.ac.in/testing.php>) and **submit the form along with samples** to:

Dr. K. Balaji, Associate Professor, Polymer Engineering Laboratory, Department of Chemistry, PSG Institute of Technology and Applied Research, Neelambur, Coimbatore – 641 062.

E-mail: analysis@psgitech.ac.in

Experimental method:

The spectrum analysis is carried out on a SHIMADZU FTIR Spectrophotometer Model IRSpiritSingle Reflectance Attenuated Total Reflection (ATR) Accessory. The internal reflection element QATR-S Single bounce ATR - Diamond Prism Disc. FTIR-spectra is recorded with 4 cm⁻¹ resolution and 45 scans were averaged in order to obtain a good signal-to-noise ratio. The ATR measurement area is a circular spot of approximately 1.5 mm diameter. The spectrum is recorded in the wavenumber range of 400-4000 cm⁻¹