



Polymer Materials Analysis Laboratory Analysis/Test Report

Date Received: 2022/11/22

Assignment No: 111A011-J112458

Date Issued: 2022/11/30

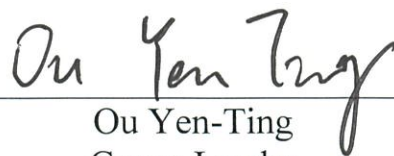
Applicant : UNITED SOURCE
PETROCHEMICALS CORP.

Address : 27F-6, No. 366, Bo'ai 2nd Rd., Zuoying
Dist., Kaohsiung City 813623, Taiwan
(R.O.C.)

Articles : Barrier Coatings for Paper Packaging
(waterproof, greaseproof and heat-
sealing) (HJS-1320, 0510, 1570, 1590,
7491, 6091)

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Authorized by



Ou Yen-Ting
Group Leader





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Item(s)/ Method(s)	Result(s)	Note
1. Material Identification SOP-C025-01	The main material of the sample is determined not containing Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Polyvinyl chloride (PVC) and Polyethylene terephthalate (PET) with Fourier transform infrared spectroscopy (FTIR) and Differential Scanning Calorimeter (DSC) analysis (the melting temperatures (T_m) are 79.5 °C). Test result see attached graph 1 ~ attached graph 6.	

REMARK :

The main requirement of the customer is to analyze whether samples contain PP, PE, PS, PVC, PET or not.

1. Material Identification

1.1 Wave number: 4000 cm^{-1} ~ 600 cm^{-1}

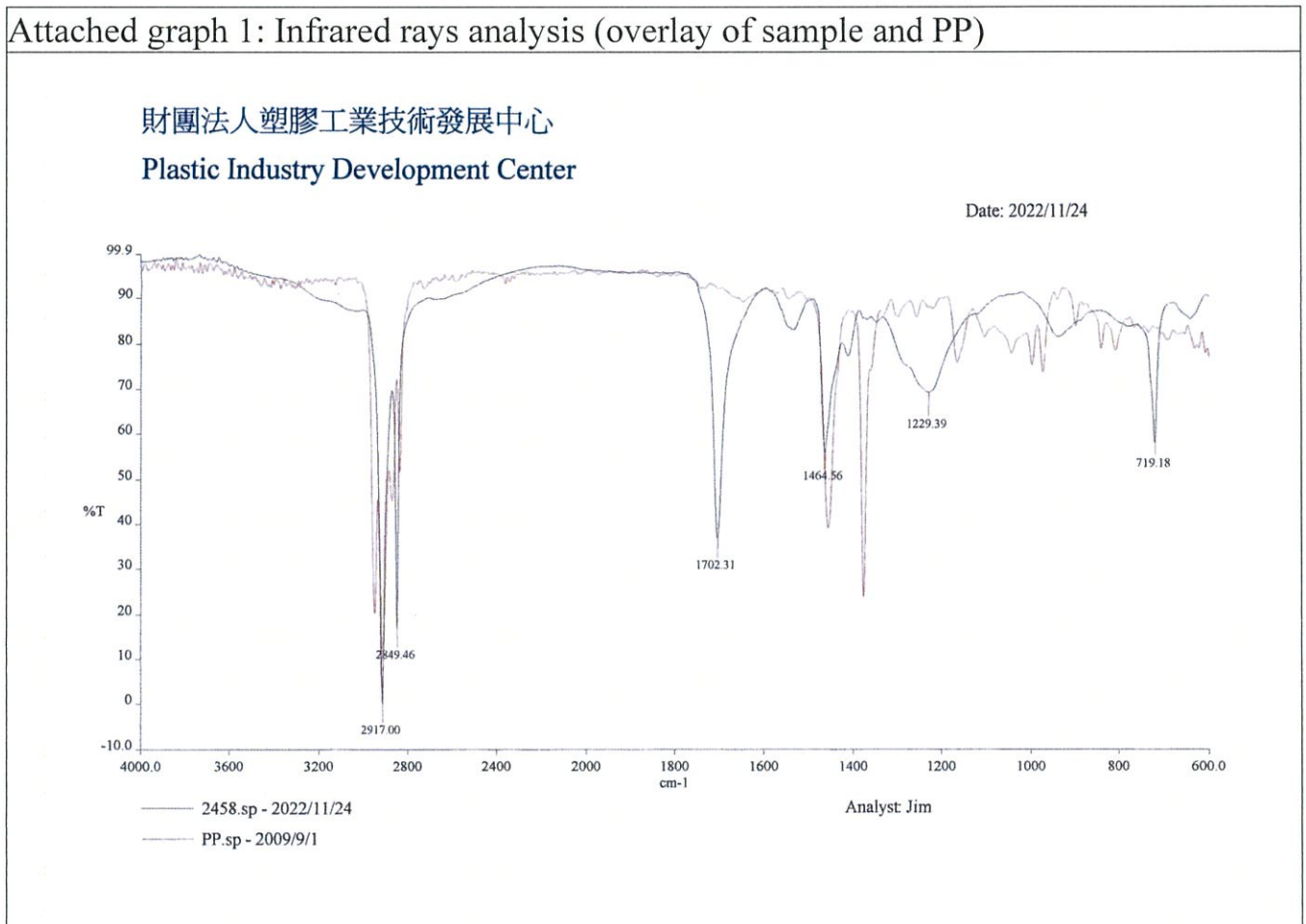


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Attached graph 1: Infrared rays analysis (overlay of sample and PP)

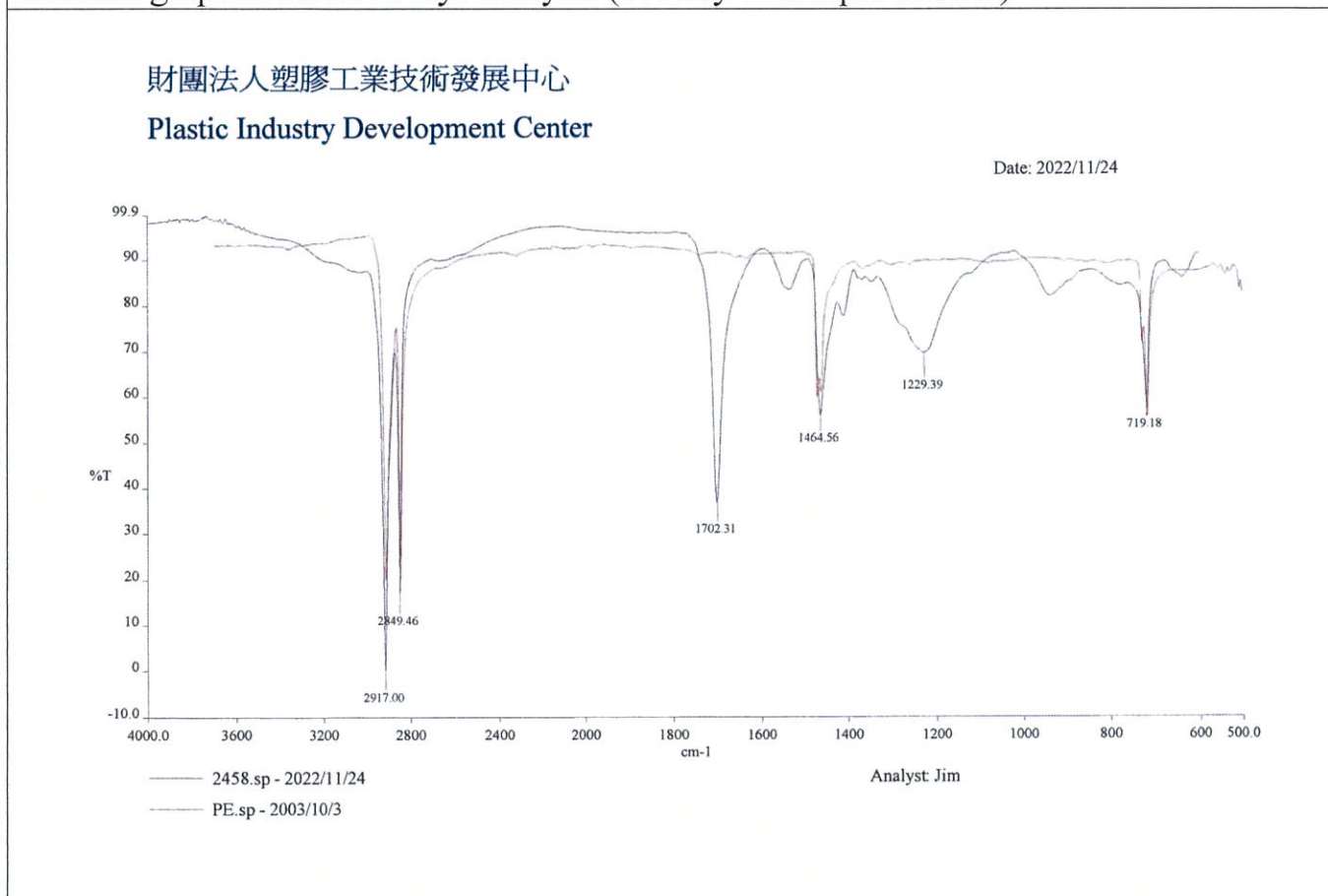


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Attached graph 2: Infrared rays analysis (overlay of sample and PE)



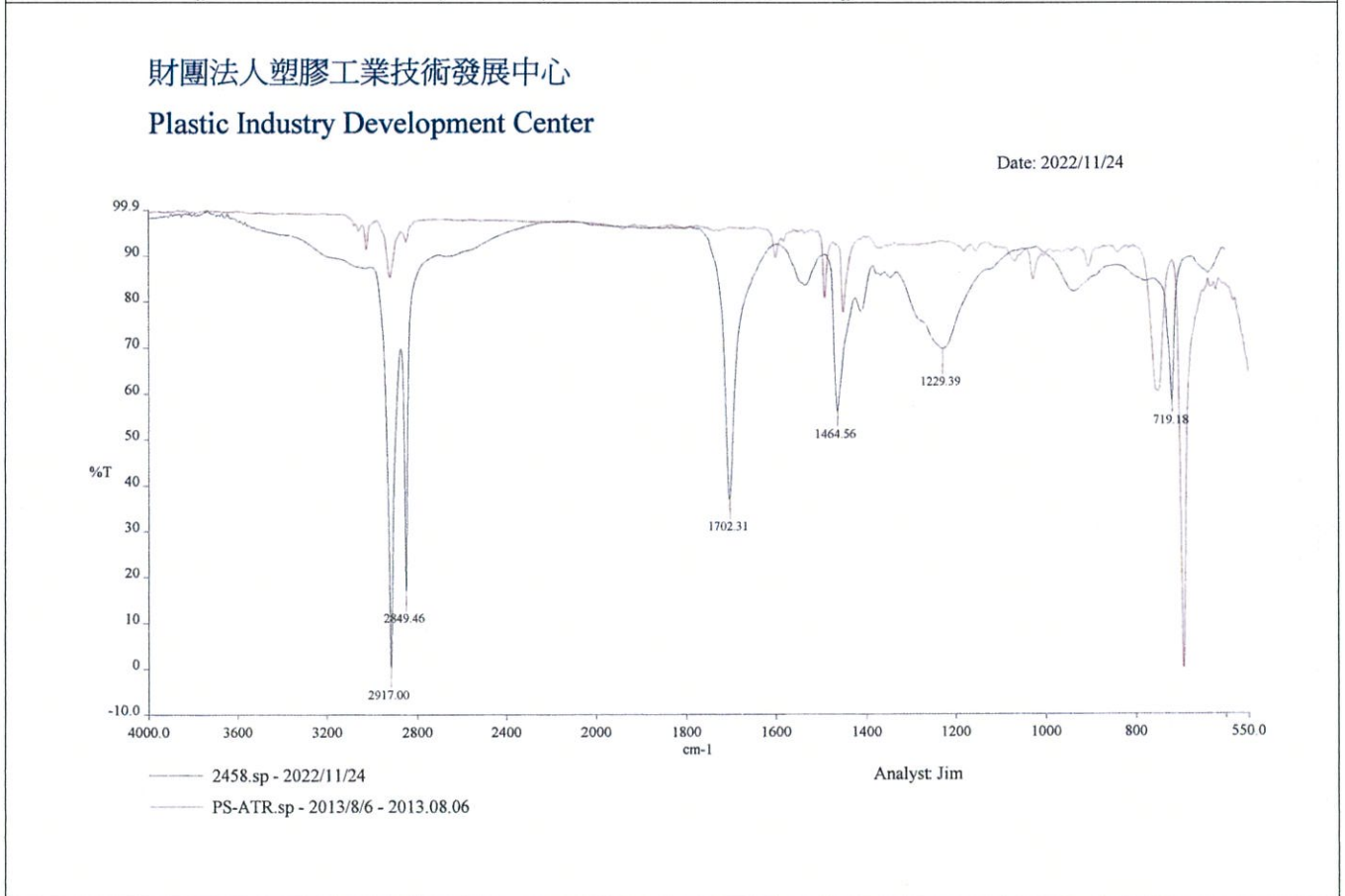


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Attached graph 3: Infrared rays analysis (overlay of sample and PS)



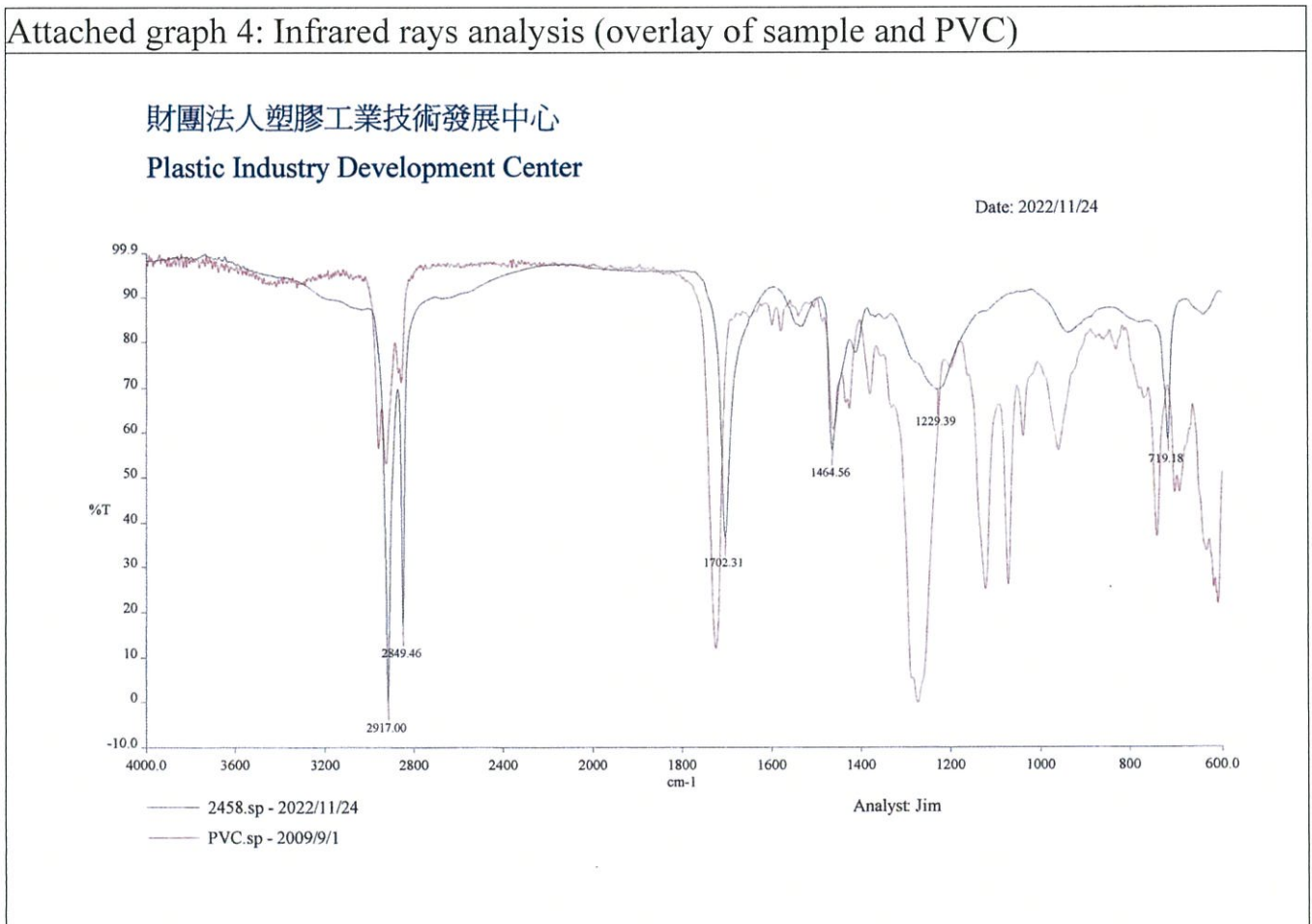


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Attached graph 4: Infrared rays analysis (overlay of sample and PVC)



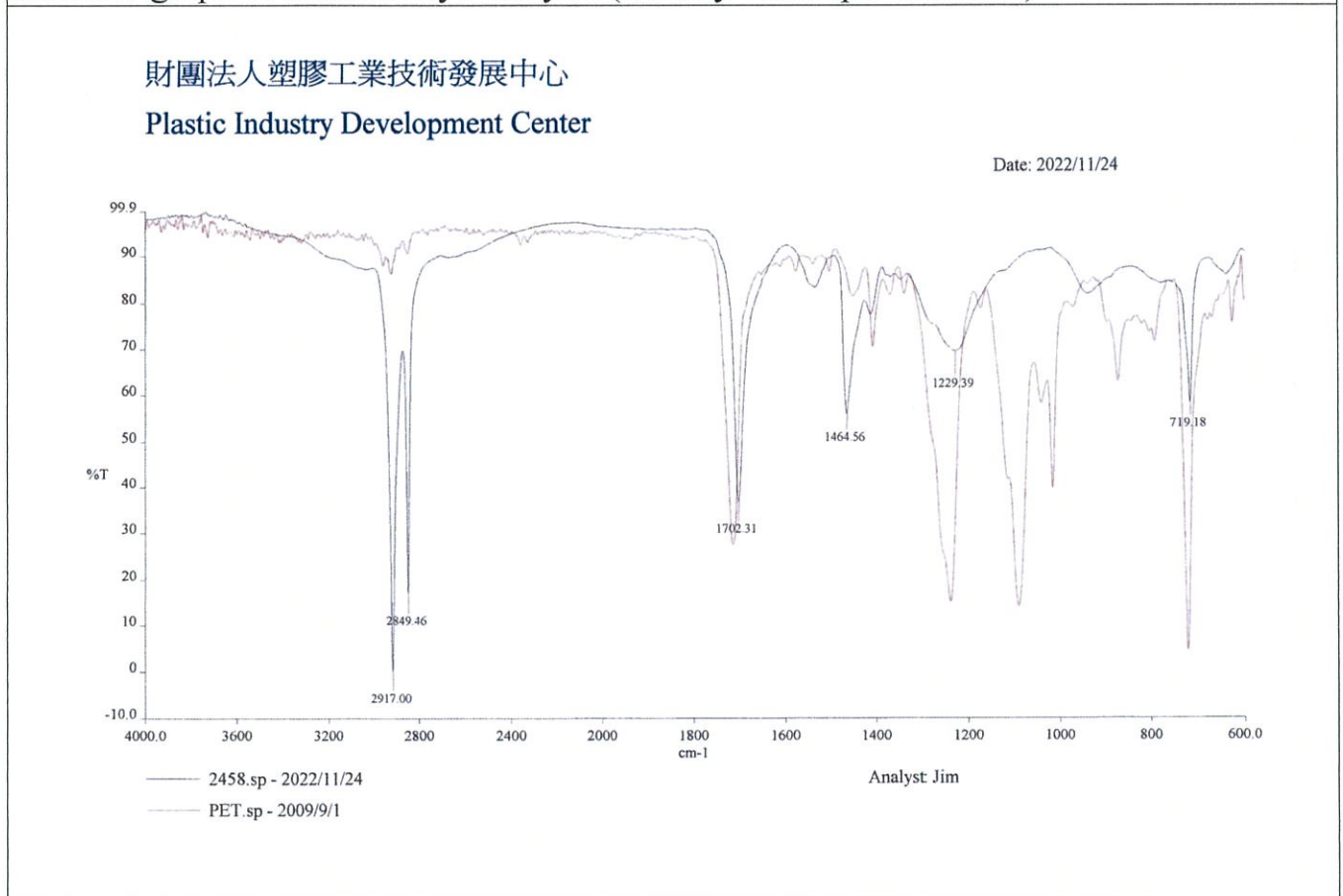


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Attached graph 5: Infrared rays analysis (overlay of sample and PET)



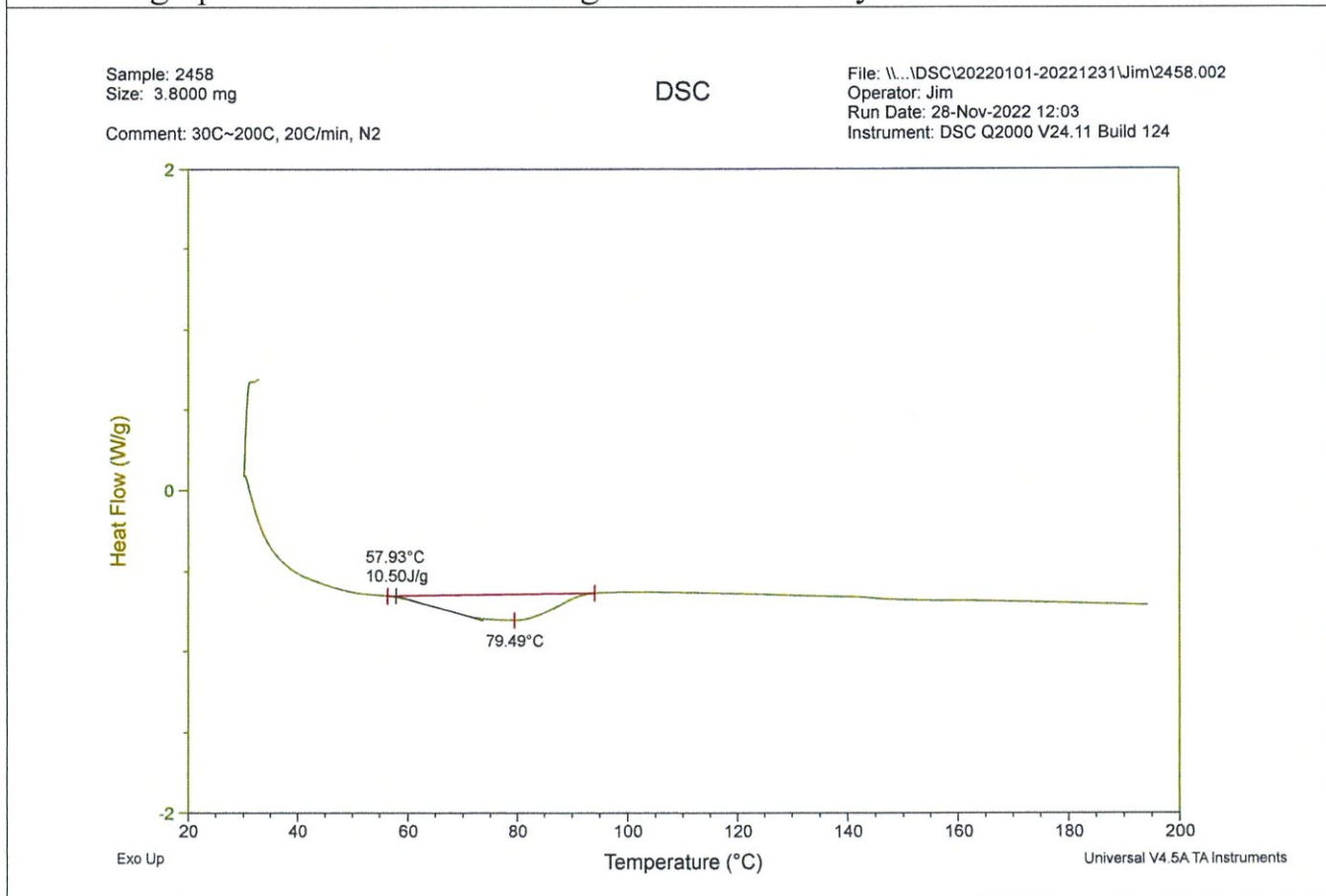


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Attached graph 6: Differential Scanning Calorimeter analysis



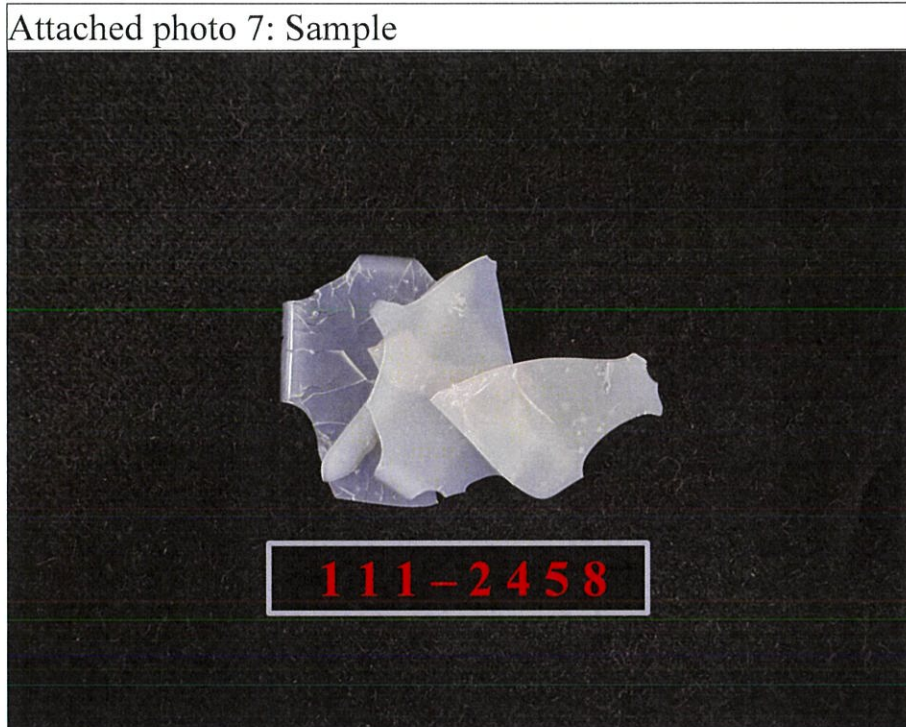


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Attached photo 7: Sample



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