

Polymer Blends for Improved CO₂ Capture Membranes

Alireza Zare ¹, Lorenza Perna ^{1,4}, Adrianna Nogalska ^{2,3}, Veronica Ambroggi ⁴, Pierfrancesco Cerruti ⁵, Bartosz Tylkowski ^{2,3}, Ricard García-Valls ^{1,2,3}, and Marta Giamberini ^{1,*}

¹ Department of Chemical Engineering, Universitat Rovira I Virgili, Av. Països Catalans, 26, 43007 Tarragona, Spain; alireza.zare@urv.cat (A.Z.); lorenza.perna@hotmail.com (L.P.); ricard.garcia@urv.cat (R.G.-V.)

² Chemistry Technology Centre of Catalonia (CTQC), C/Marcel·lí Domingo, 43007 Tarragona, Spain

³ Eurecat, Centre Tecnològic de Catalunya, C/Marcel·lí Domingo, 43007 Tarragona, Spain; adrianna.nogalska@ctqc.org (A.N.); bartosz.tylkowski@ctqc.org (B.T.)

⁴ Department of Chemicals, Materials and Production Engineering, University of Naples Federico II, Piazzale Tecchio 80, 80125 Naples, Italy; ambroggi@unina.it

⁵ Institute of Polymers, Composites and Biomaterials, National Research Council, Via Campi Flegrei 34, 80078 Pozzuoli, Italy; cerruti@ipcb.cnr.it

* Correspondence: marta.giamberini@urv.cat; Tel.: +34 977558174

Received: 10 September 2019; Accepted: 10 October 2019; Published: date

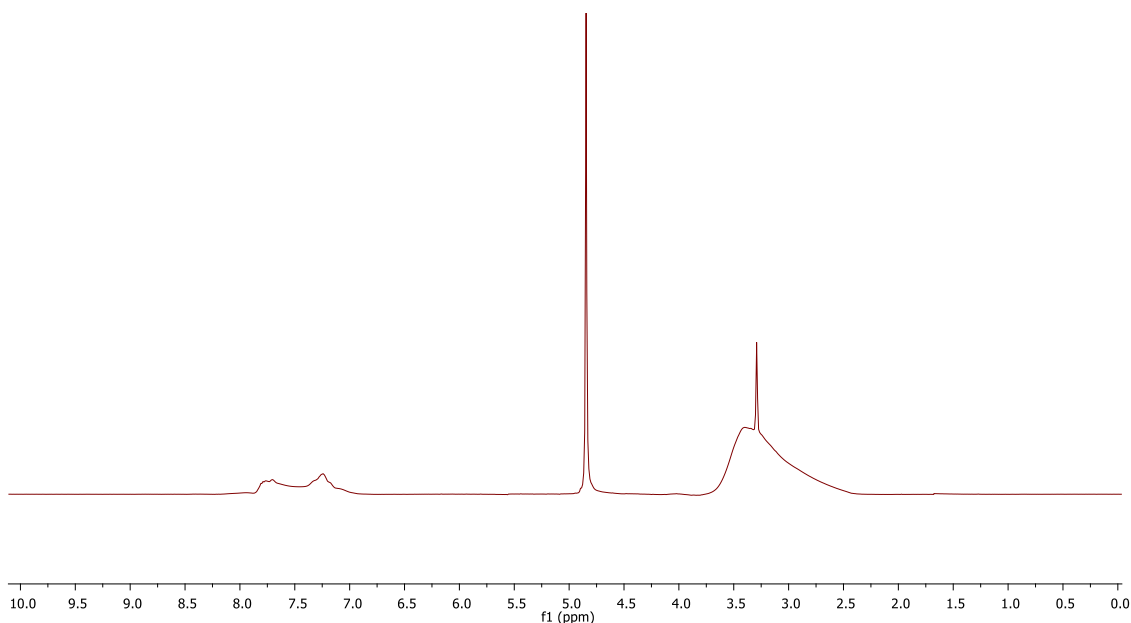


Figure S1. ¹H NMR spectrum in CD₃OD of mG20.

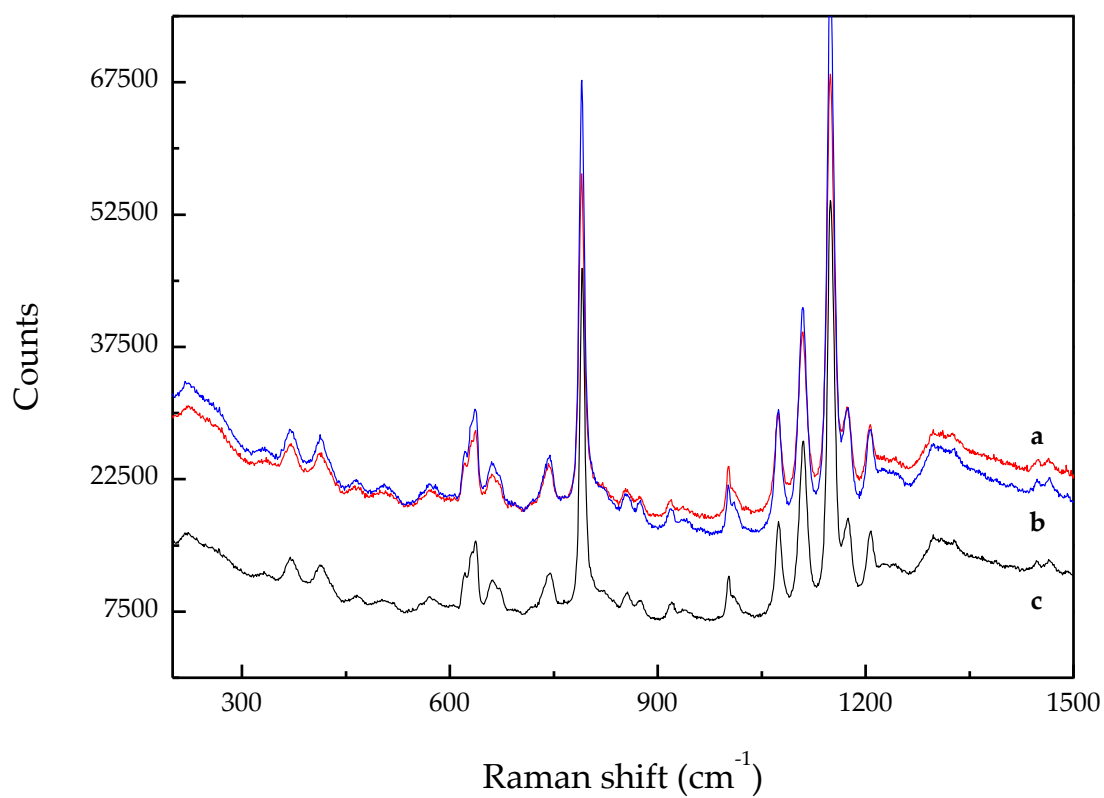


Figure S2 Raman spectra between 200 and 1500 cm⁻¹ performed across the section of L20 : (a) top; (b) center; (c) bottom surface.

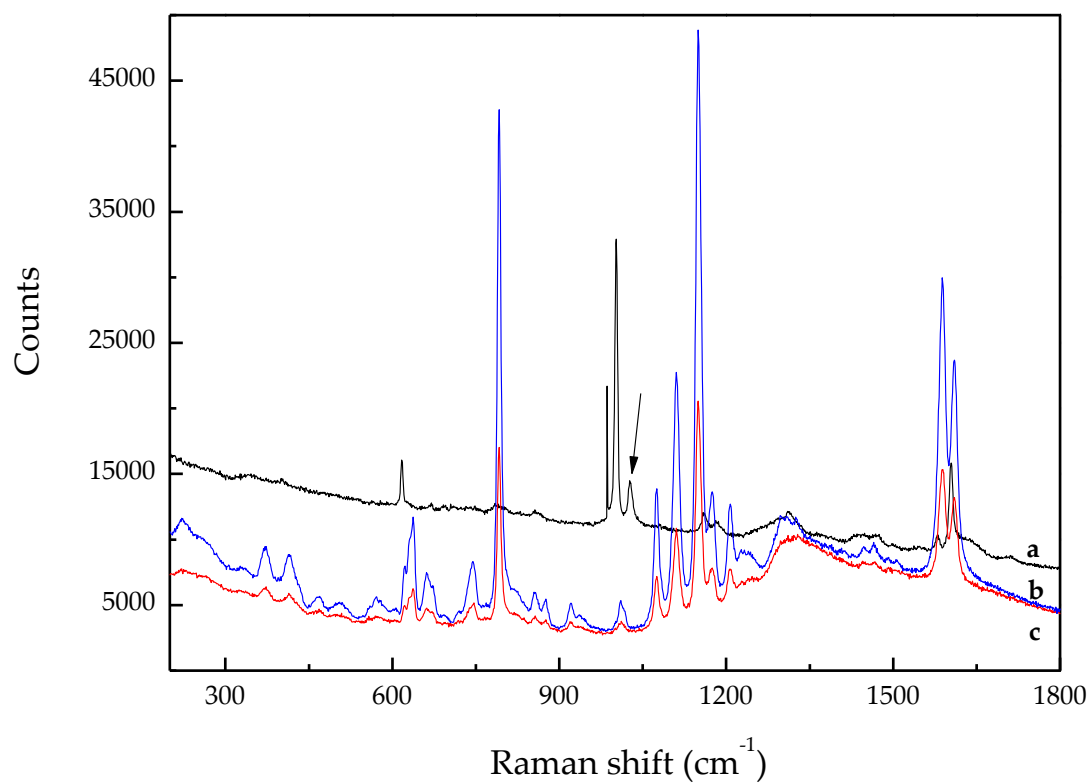


Figure S3 Raman spectra between 200 and 1800 cm⁻¹ of: (a) neat mG20; (b) L10, top surface; (c) L10, bottom surface. The band at 1030 cm⁻¹ is highlighted.