Supplementary Materials: Applicability of PolyActiveTM Thin Film Composite Membranes for CO₂ Separation from C₂H₄ containing Multicomponent Gas Mixtures at Pressures up to 30 bar

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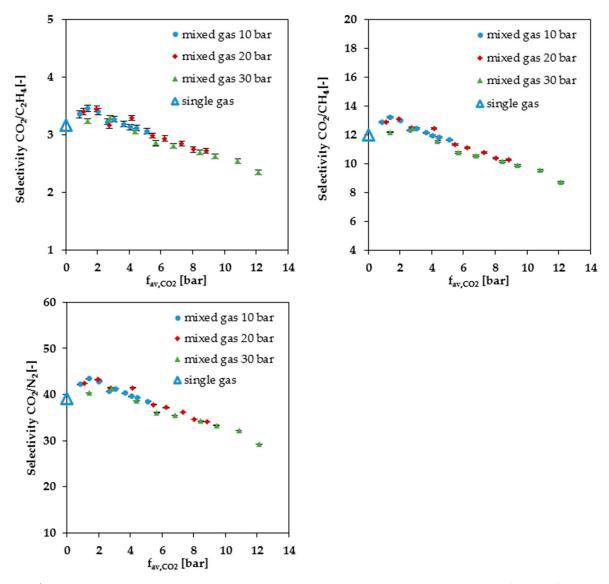


Figure S1. CO_2/C_2H_4 , CO_2/C_1H_4 and CO_2/N_2 selectivity at 25 °C plotted against average CO_2 fugacity from mixed gas experiments. The open triangle represents single gas data acquired at low pressure (0–2 bar), i.e. pressure increase data where the plotted value was determined using the L_0 values of the Free-Volume model according to Equation (1). In this study, the selectivity is defined as the ratio of permeances.

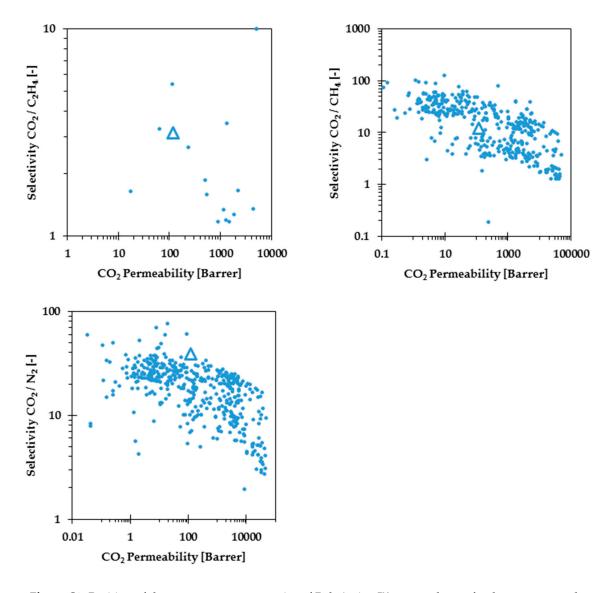


Figure S2. Position of the gas transport properties of PolyActive TM among those of polymers reported in the literature [1]. PolyActive TM is marked by open triangle.

Reference

1. Polymer gas separation membranes. Available online: https://membrane-australasia.org/polymer-gas-separation-membranes/ (Accessed on 29 May 2018)