

**Pristine and thermally-rearranged gas separation membranes
from novel *o*-hydroxyl functionalized spirobifluorene-based
polyimides**

Xiaohua Ma, Octavio Salinas, Eric Litwiller and Ingo Pinnau*

Table S1 Solubility of the HSBF-based polyimides and their thermally-rearranged PBOs

Polymers	Solvent						
	m-Cresol	NMP	DMF	THF	CHCl ₃	Acetone	MeOH
6FDA-HSBF	++	++	++	++	--	--	--
SPDA-HSBF	++	++	++	++	--	--	--
6FDA-SBF-PBO	--	--	--	--	--	--	--
SPDA-SBF-PBO	--	--	--	--	--	--	--

++: Soluble; -- Insoluble.

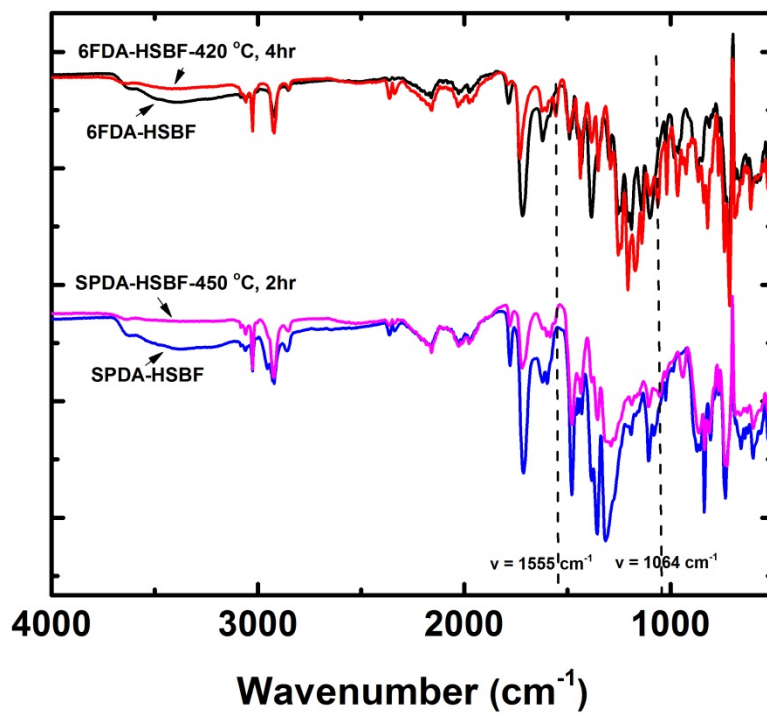


Figure S1 FT-IR of the HSBF-based polyimides and their thermally-rearranged PBOs.

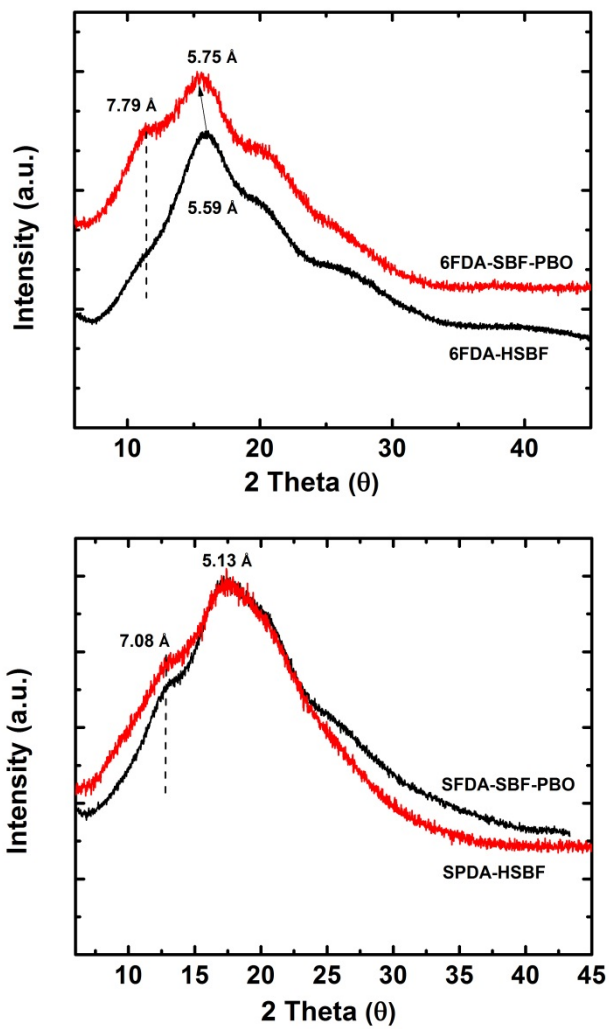


Figure S2 Wide-angle x-ray scattering results of 6FDA-HSBF and SPDA-HSBF polyimides and their corresponding PBOs.