Supporting Information

Inverse gas chromatographic study of sorption thermodynamics in thermally rearranged (TR) polymer based on 2,2-bis(3-amino-4-hydroxyphenyl)-hexafluoropropane (bisAPAF) and 4,4'-hexafluoroisopropylidene diphthalic anhydride (6FDA)

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Temperature dependencies of specific retention volume V_g (retention diagrams) of solutes are presented in tables S1 (TR polymer) and S2 (Precursor).

Table S1. Retention diagrams of n-alkane solutes in TR polymer.

Temperature, °C	1000/*T*, K^{-1}	V_g, cm^3/g					
		n-C_7	n-C_{18}	n-C_{10}	n-C_{12}	n-C_{14}	n-C_{16}
190	2.159	64.5±2.5					
195	2.136	55±12					
200	2.113	46±5					
205	2.091	38.01.2					
210	2.070	31.6±0.9					
215	2.048	27.1±3.1					
220	2.028	22.9±1.5					
190	2.159		146±4				
195	2.136		118.6±3.3				
200	2.113		98.1±3.0				
205	2.091		80±4				
210	2.070		65.6±2.1				
215	2.048		54.6±1.6				
215	2.048			163±11			
220	2.028			135±11			

225	2.007			106±10			
230	1.987			91±5			
235	1.968			72±4			
240	1.949			59±3			
220	2.028				506±58		
225	2.007				390±25		
230	1.987				301±20		
235	1.968				228±15		
240	1.949				181±11		
245	1.93				139±7		
250	1.911				111±7		
235	1.968					764±89	
240	1.949					566±36	
245	1.93					407±28	
250	1.911					309±17	
255	1.893					252±25	
260	1.875					194±10	
265	1.858					145±10	
255	1.893						652±42
260	1.875						491±34
265	1.858						372±26
267	1.851						346±17
270	1.841						287±16
275	1.824						225±13
280	1.808						176±9

Table S2. Retention diagrams of C_7, C_8 n-alkanes in the precursor

Temperature, °C	1000/T, K^{-1}	V_g, cm^3/g	
		n-C_7	n-C_8
60	3.001	15.6±3.5	
65	2.957	10.6±1.3	
70	2.914	9.2±0.6	
75	2.872	6.4±0.3	
80	2.831	3.3±0.2	
60	3.001		20.6±2.5
70	2.914		16.3±1.1
80	2.831		10.4±2.3
90	2.753		6.1±0.8
100	2.680		3.71±0.03