

Table 1. Polymerization Data

Metal-Ligand Complex	M	R ³	T (°C)	Loading (μmol)	Yield (g)	Efficiency (g/g) ¹	Mw (g/mol)	PDI	Tm (°C)	[C ₈] (mol%)
1	Hf	Mesityl	150	0.1	0.6	33,615	55,777	6.9	126.4	ND
2	Zr	Mesityl	150	0.1	0.2	21,924	ND	ND	ND	ND
3	Hf	4-fluoro	150	1.6	0.8	2241	112,685	4.5	119.6	2.9
4	Zr	4-fluoro	150	2.0	2.3	12,606	74,948	5.7	120.4	2.2
5	Hf	Neopentyl	150	0.1	0.8	44,820	244,316	5.9	125.9	5.6
6	Zr	Neopentyl	150	ND ²	ND	ND	ND	ND	ND	ND
7	Hf	Mesityl	120	0.3	1.9	35,483	138,018	2.9	ND	13.9
8	Zr	Mesityl	120	2	0.4	2192	659,182	8.2	131	ND
9	Hf	Mesityl	120	0.1	0.4	22,410	151,709	3.4	70.4	8.8
10	Zr	Mesityl	120	1.5	0.8	5846	816,979	6.5	131	2
11	Hf	Mesityl	120	0.5	1.8	20,169	145,926	2.5	59.4	12.9
12	Zr	Mesityl	120	2	0.7	3,837	260,993	9.4	126	9.4
13	Hf	2,6-diisopropyl	120	0.5	34.2	383,215	255,111	3.5	71.7	7.8
13	Hf	2,6-diisopropyl	150	0.4	23.8	333,352	230,899	4	106	15.8
14	Zr	2,6-diisopropyl	120	1.0	0.5	5,481	130,166	5.8	109.4	6.5
15	Hf	2,6-diisopropyl	150	1.0	18.7	104,768	143,075	3.7	95.7	9.2
16	Hf	2,6-dimethyl	120	1.0	6.9	38,658	277,051	4.0	58.4	9.8
17	Hf	2,6-diisopropyl	150	1.5	17.0	63,496	101,601	3.6	124	6.0
18	Hf	2,6-diisopropyl	120	0.5	7.5	84,038	120,410	2.9	111	7.8
19	Hf	2,6-dimethyl	120	1.0	0.7	3922	ND	ND	ND	ND
20	Hf	2,6-diisopropyl	150	4.0	2.3	3221	125,173	3.8	ND	9.5
21	Hf	2,6-diisopropyl	120	1.5	0.3	1121	ND	ND	ND	ND
22	Hf	2,6-diisopropyl	120	5.0	1.9	2129	162,755	14.7	103.1	9.5

FIGURE