

Supporting information for

Thermal Diffusivity and Conductivity of Polyolefins by Thermal Lens Technique

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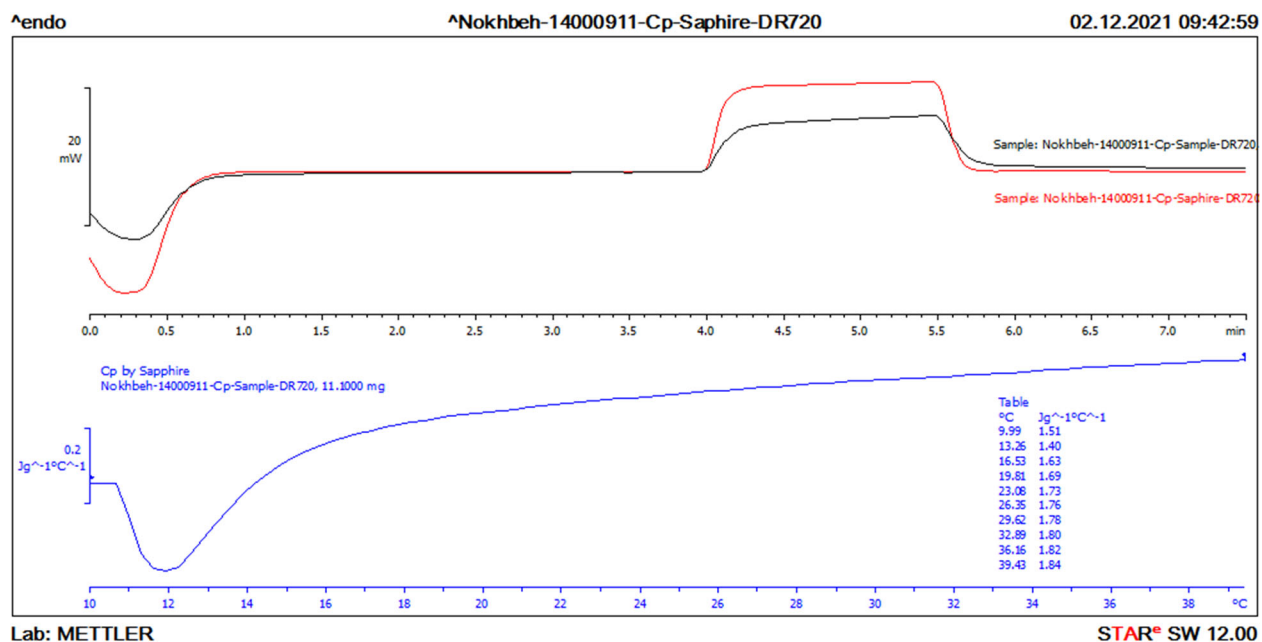


Figure S1: Thermogram for calculation of C_p of HDPE

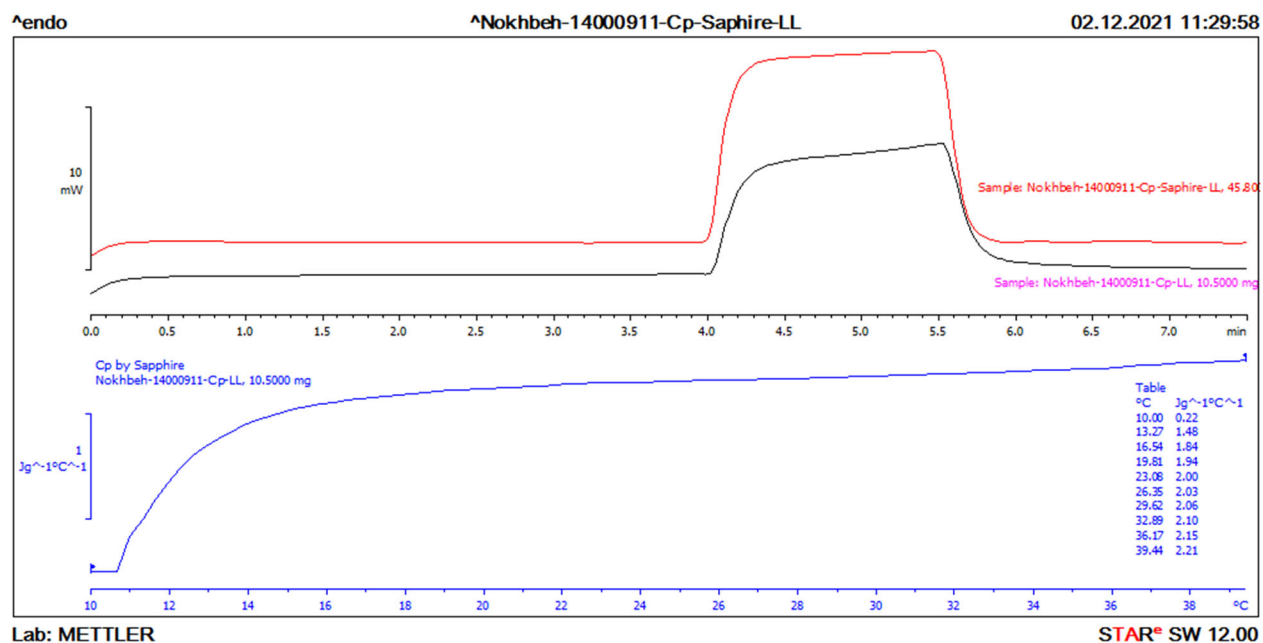


Figure S2: Thermogram for calculation of Cp of LLDPE

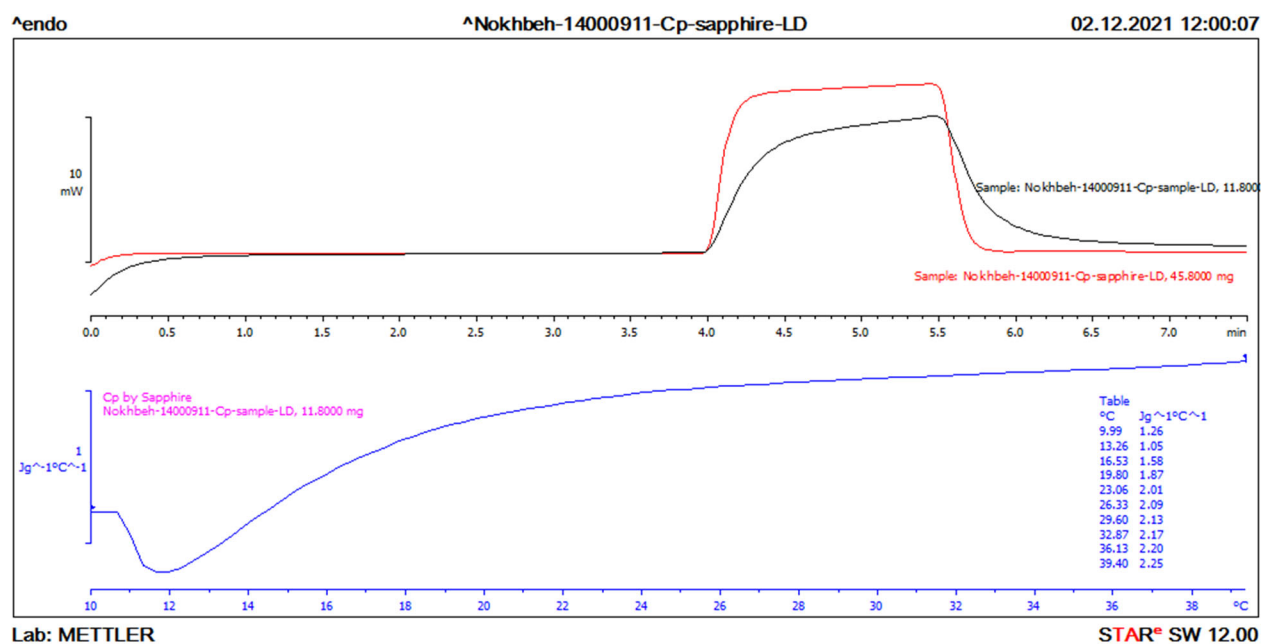


Figure S3: Thermogram for calculation of Cp of LDPE

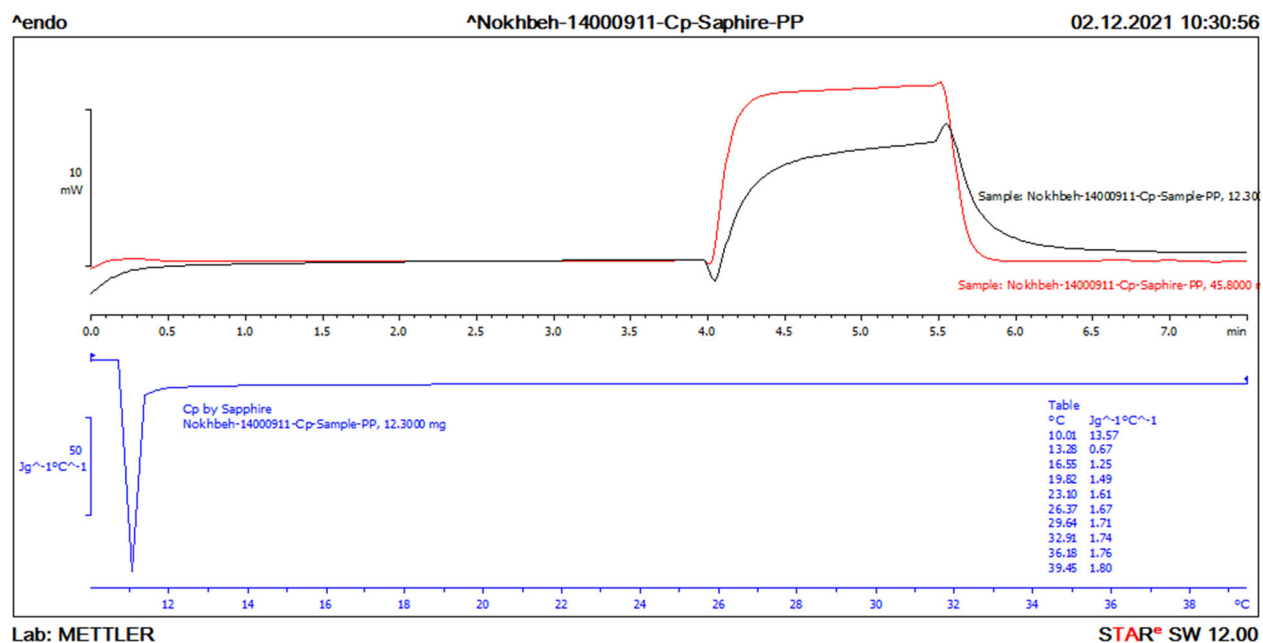


Figure S4: Thermogram for calculation of Cp of PP

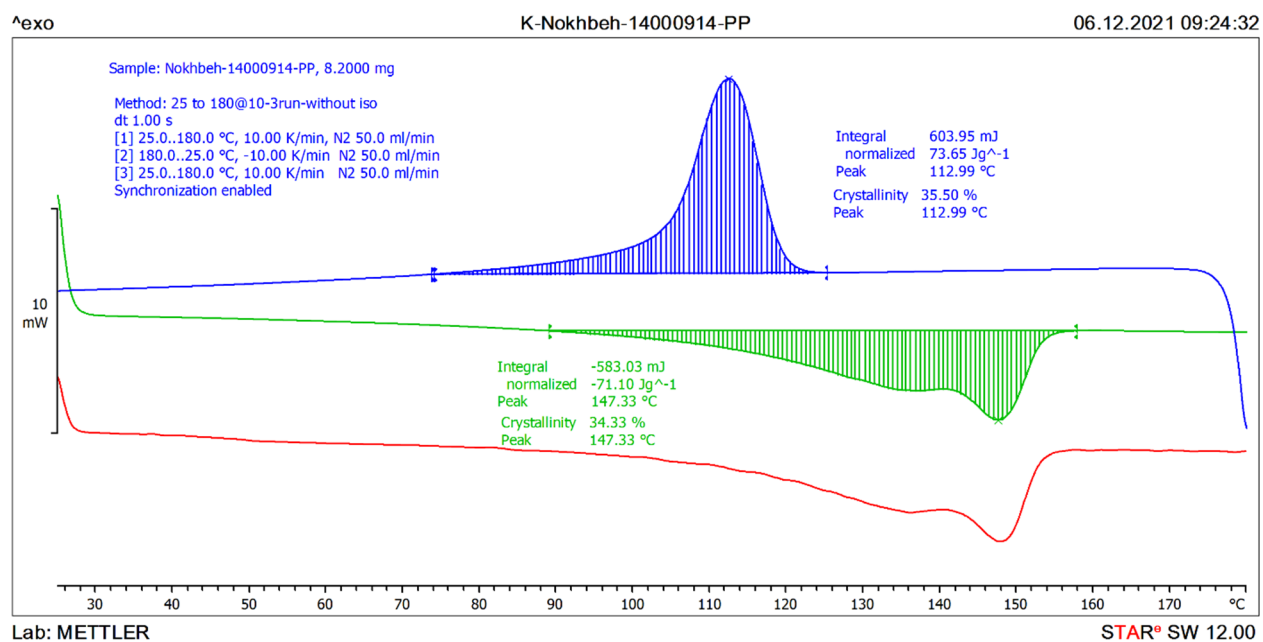


Figure S5: DSC Thermogram for calculation of crystallinity of PP

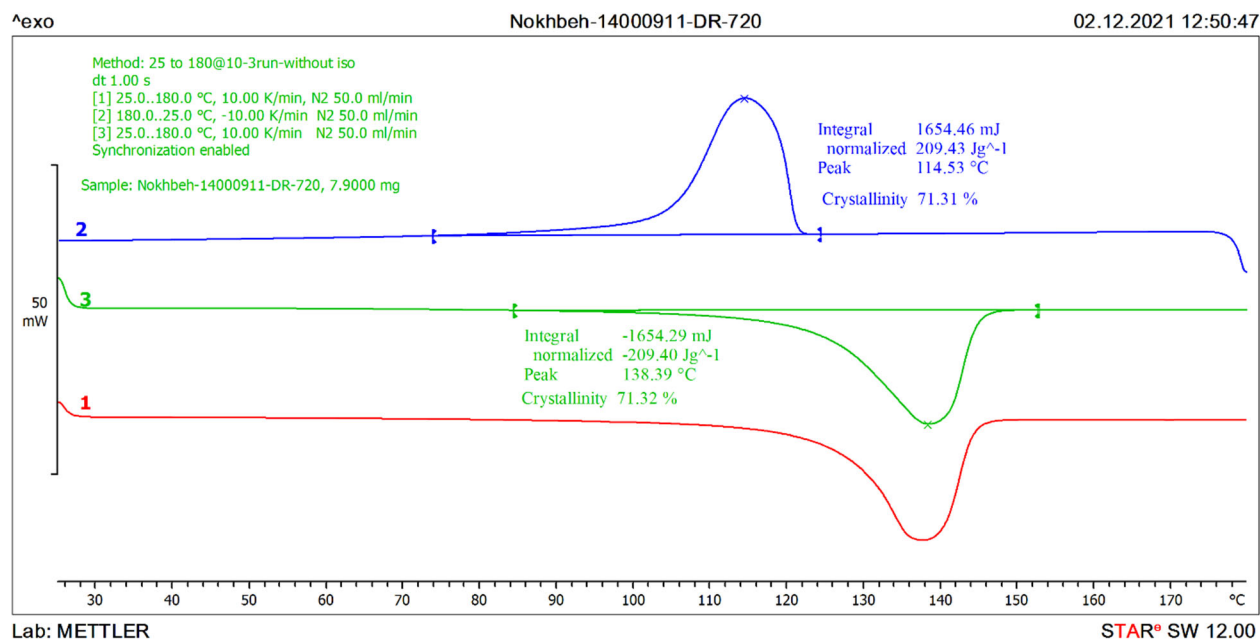


Figure S6: DSC Thermogram for calculation of crystallinity of HDPE

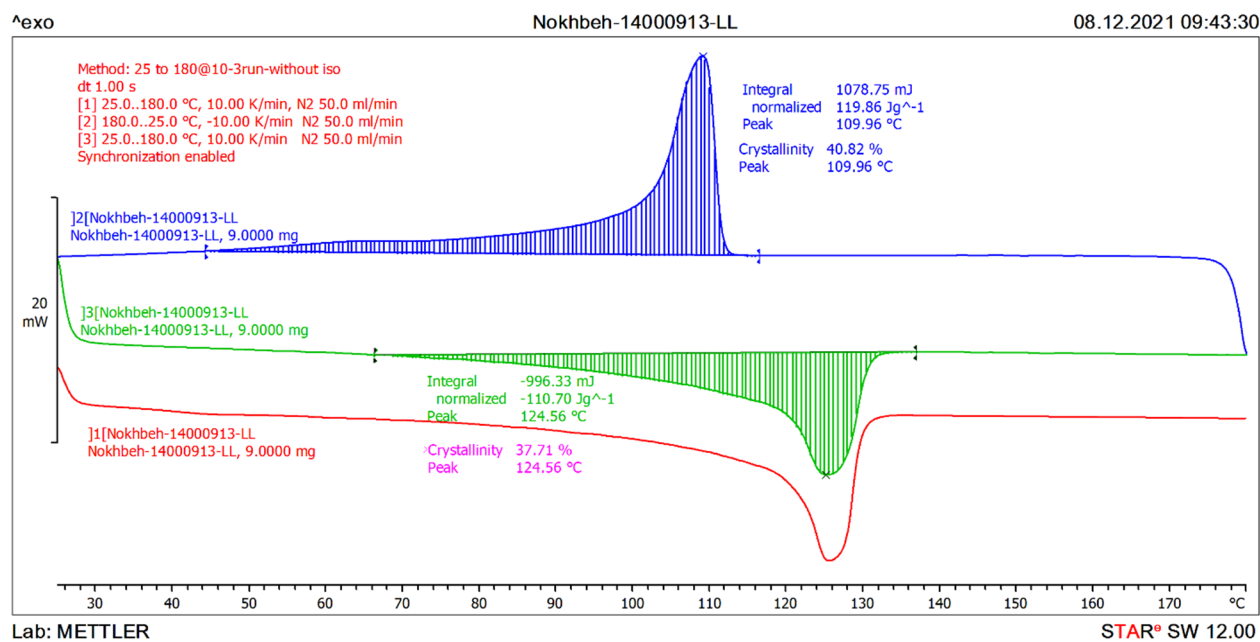


Figure S7: DSC Thermogram for calculation of crystallinity of LLDPE

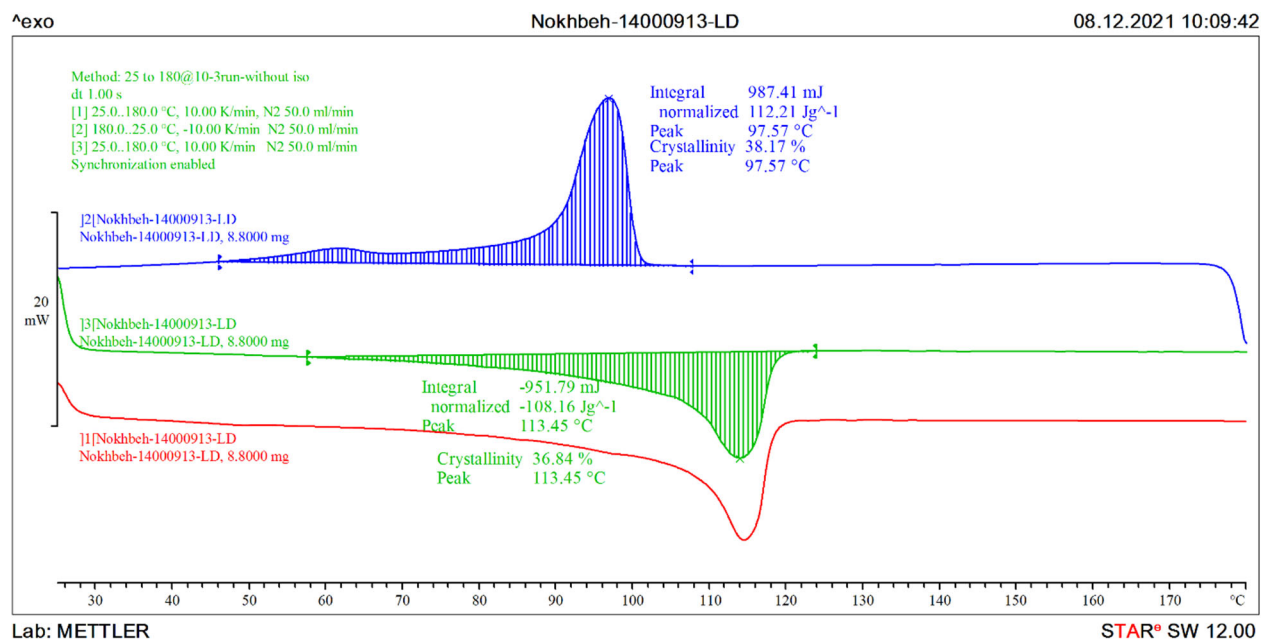


Figure S8: DSC Thermogram for calculation of crystallinity of LDPE

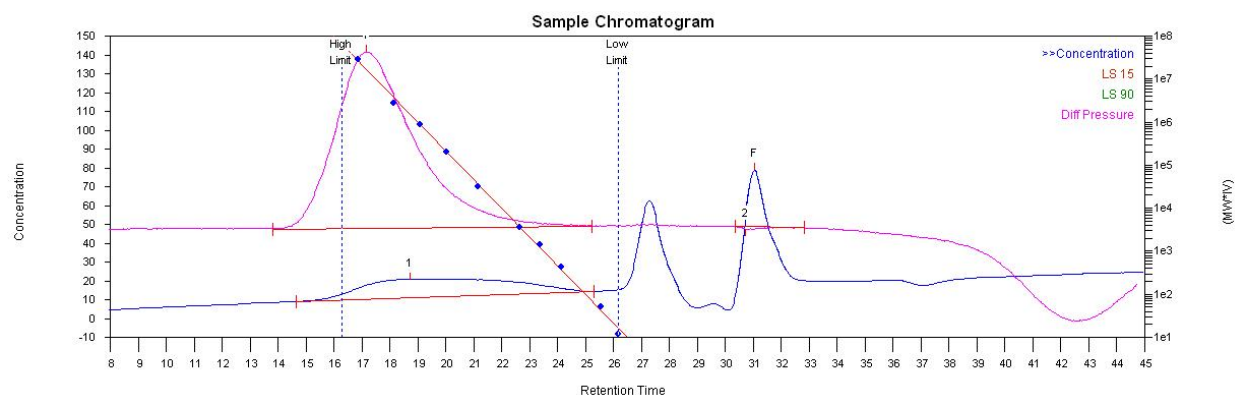


Figure S9: GPC chromatogram of HDPE

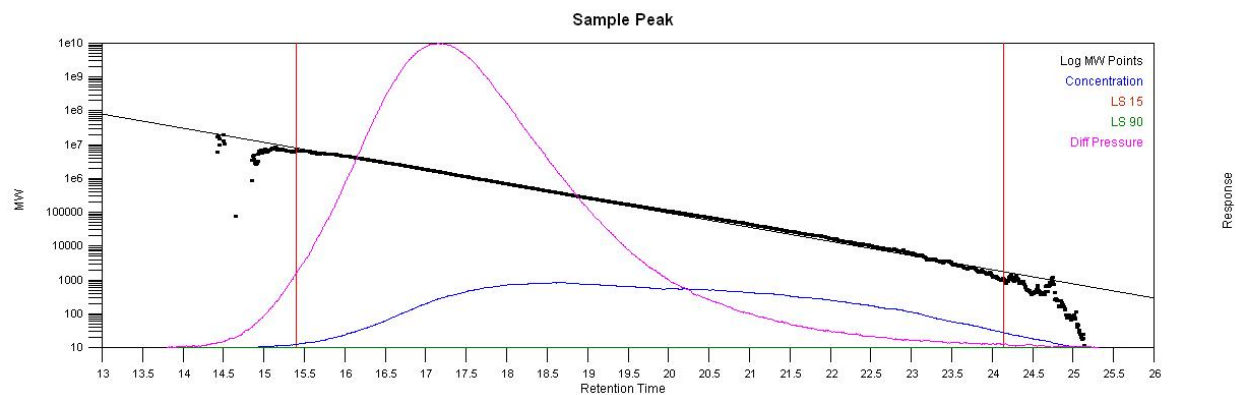


Figure S10: Diagram of log Mw vs Retention Time for HDPE

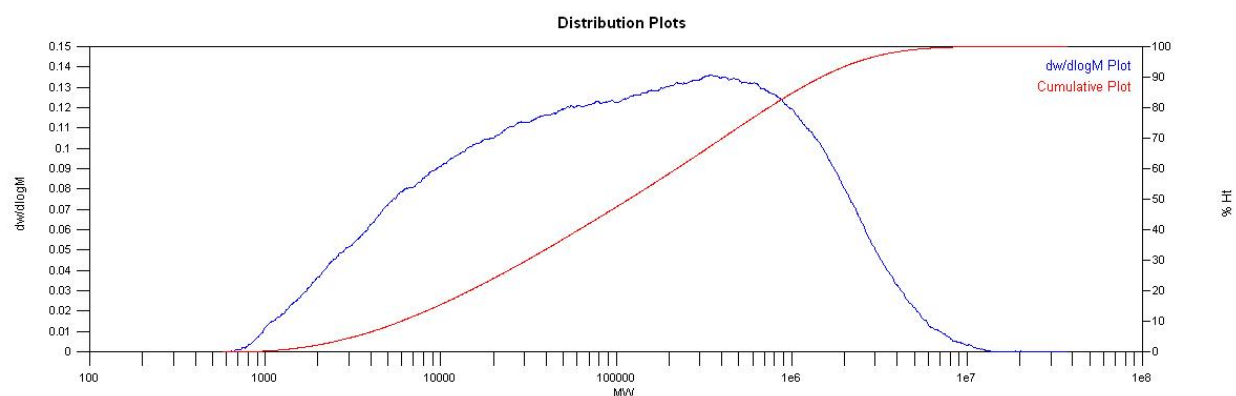


Figure S11: Diagram of $dw/d\log M$ vs log Mw for HDPE

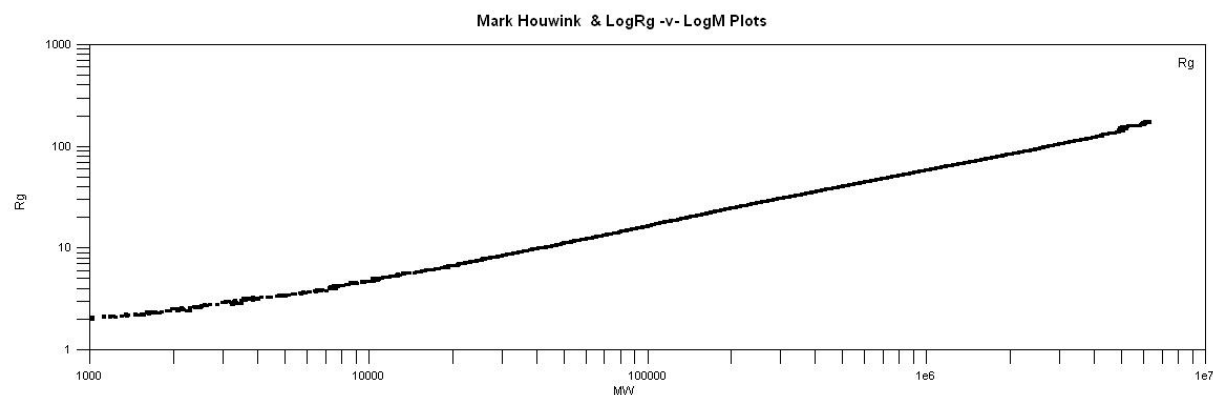


Figure S12: Diagram of R_g vs log Mw for HDPE

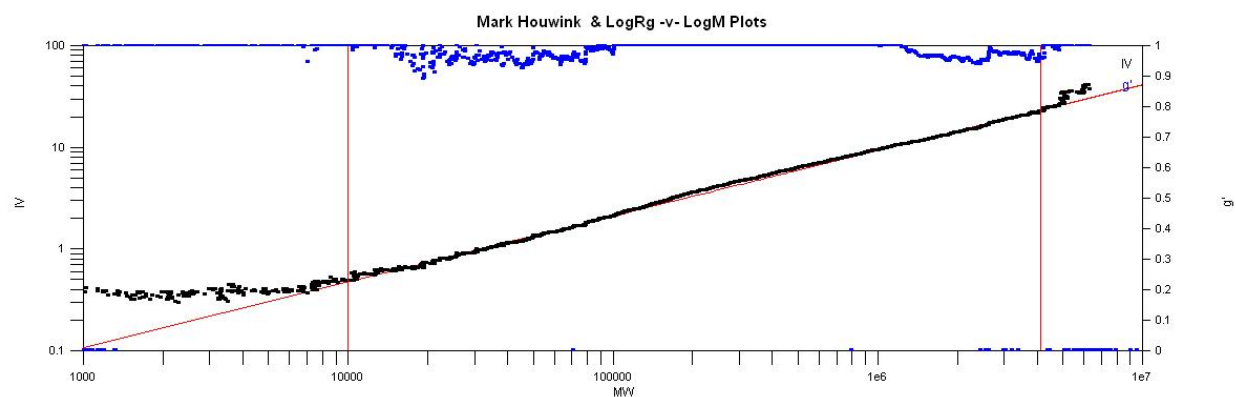


Figure S13: Diagram of IV and g' vs log Mw for HDPE

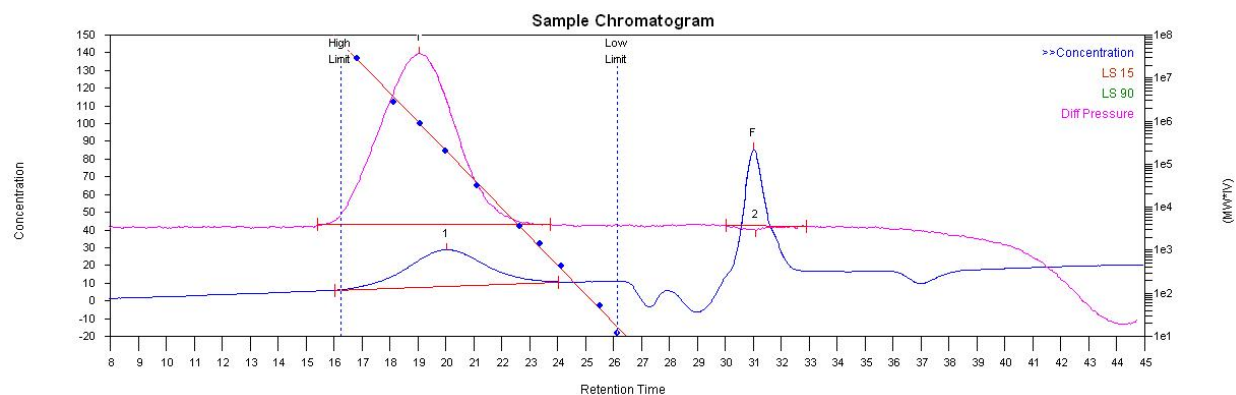


Figure S14: GPC chromatogram of LLDPE

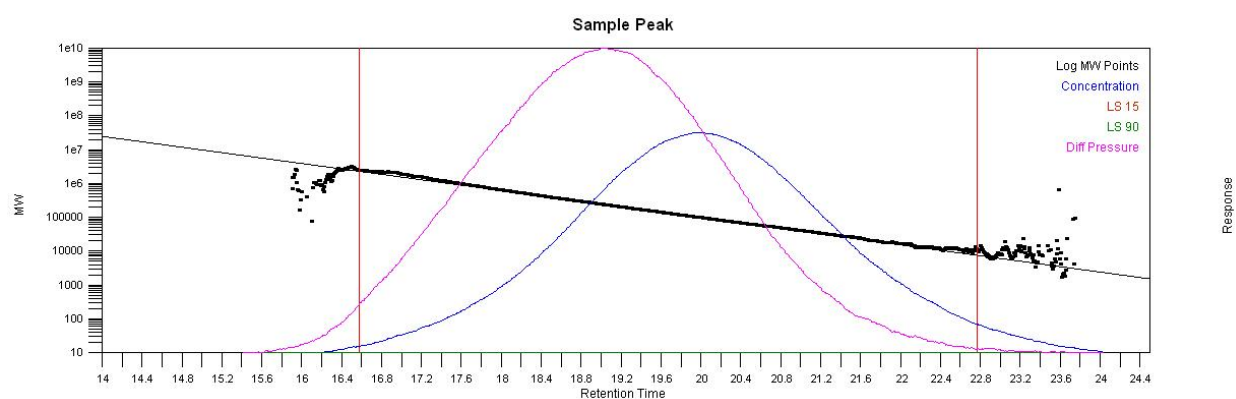


Figure S15: Diagram of log Mw vs Retention Time for LLDPE

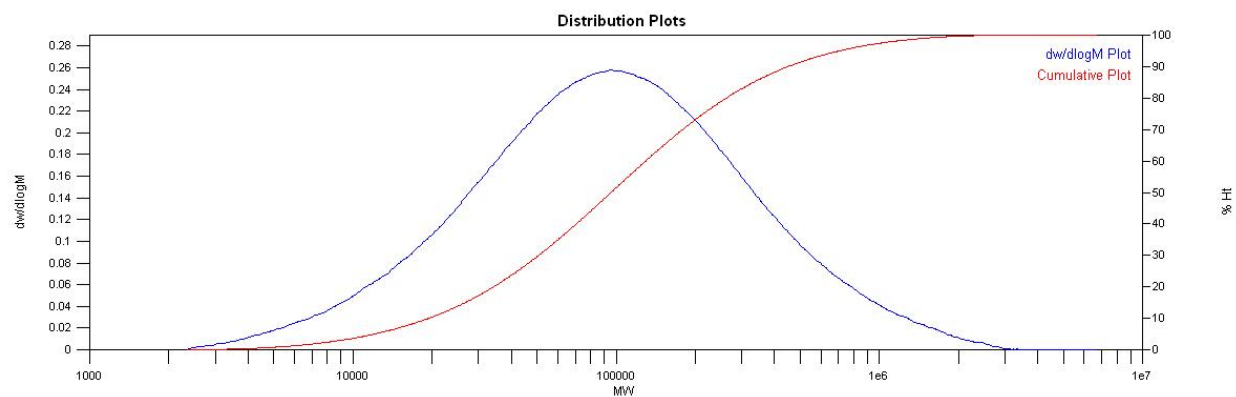


Figure S16: Diagram of $dw/d\log M$ vs log Mw for LLDPE

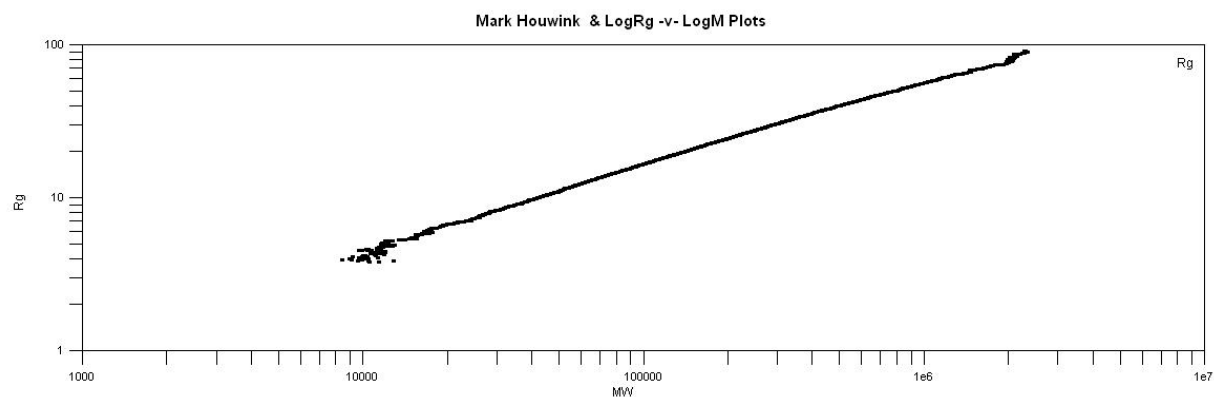


Figure S17: Diagram of R_g vs $\log M_w$ for LLDPE

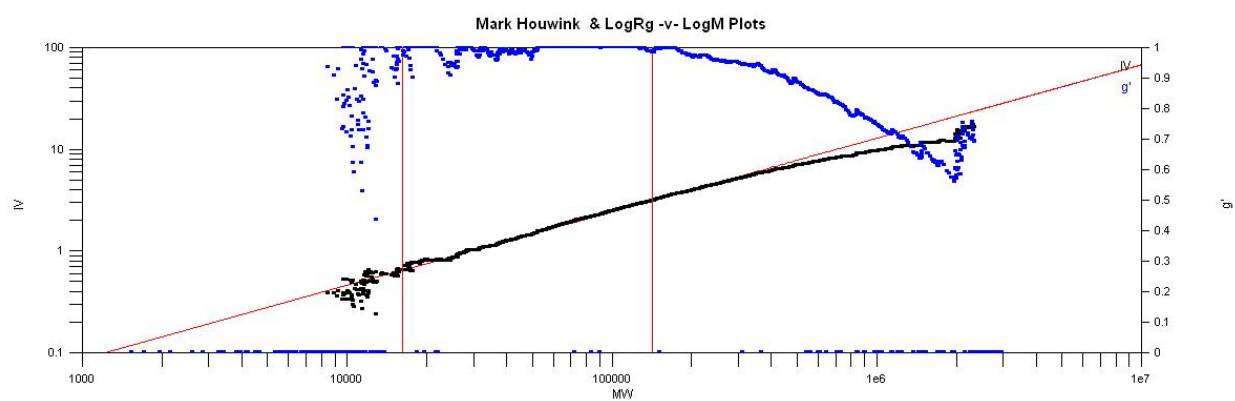


Figure S18: Diagram of IV and g' vs $\log M_w$ for LLDPE

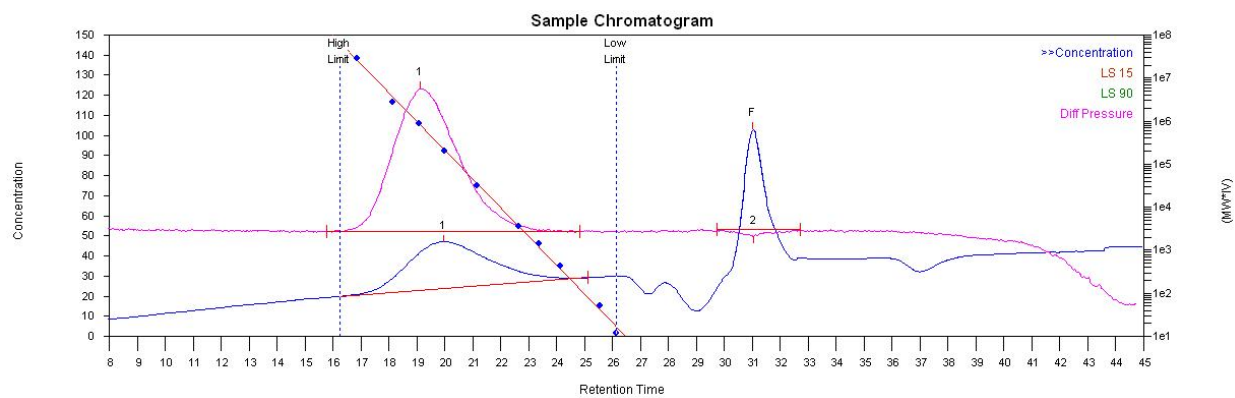


Figure S19: GPC chromatogram of LDPE

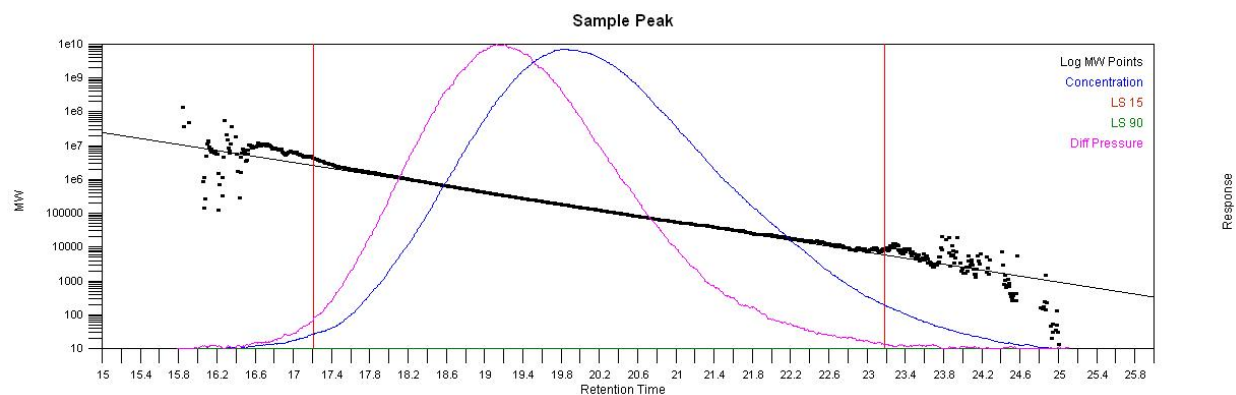


Figure S20: Diagram of log Mw vs Retention Time for LDPE

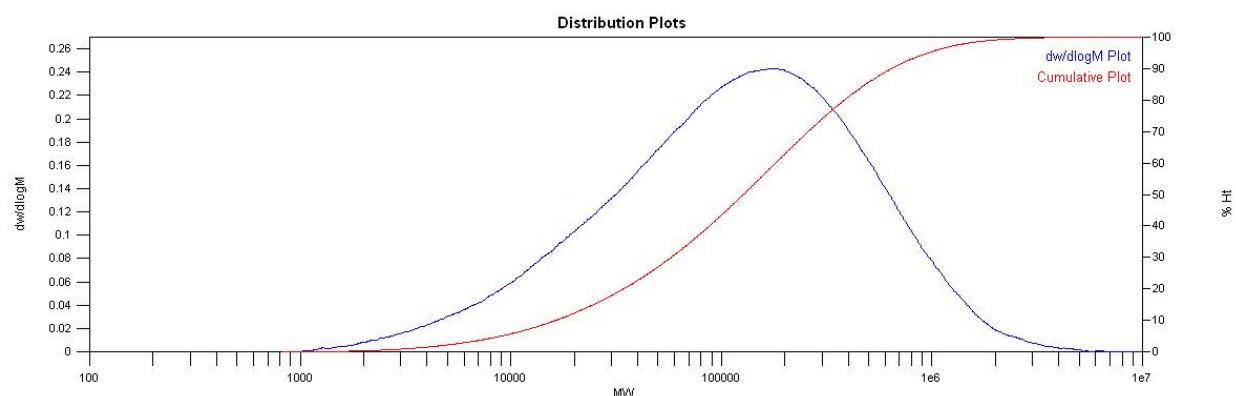


Figure S21: Diagram of dw/dlogM vs log Mw for LDPE

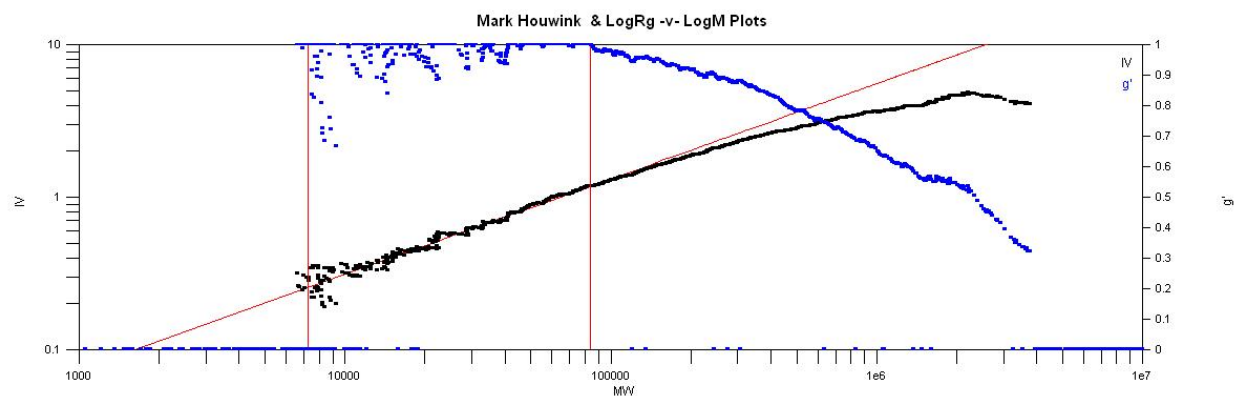


Figure S22: Diagram of IV and g' vs log Mw for LDPE

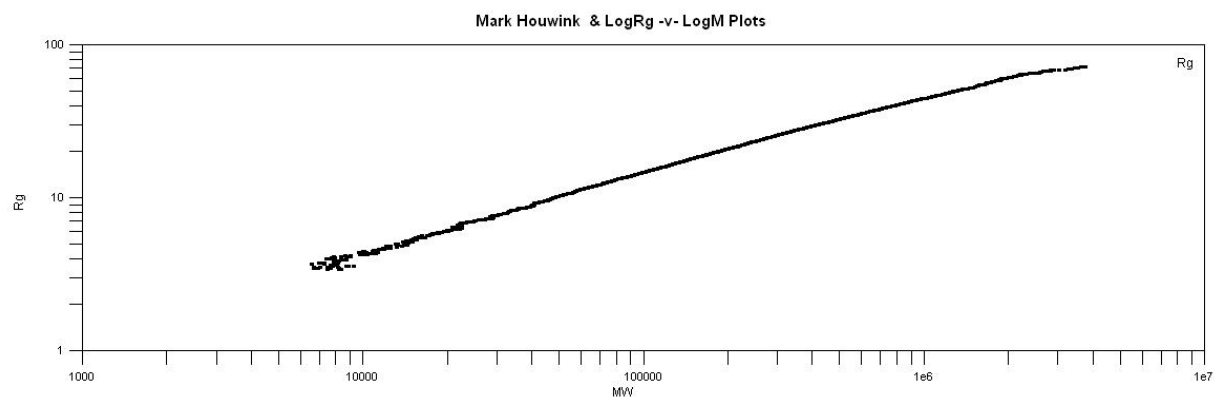


Figure S23: Diagram of R_g vs log M_w for LDPE

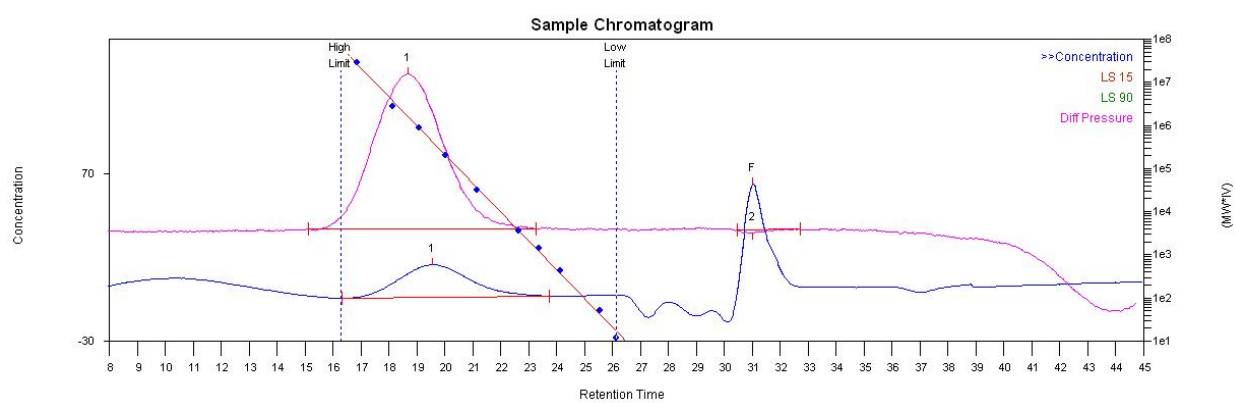


Figure S24: GPC chromatogram of PP

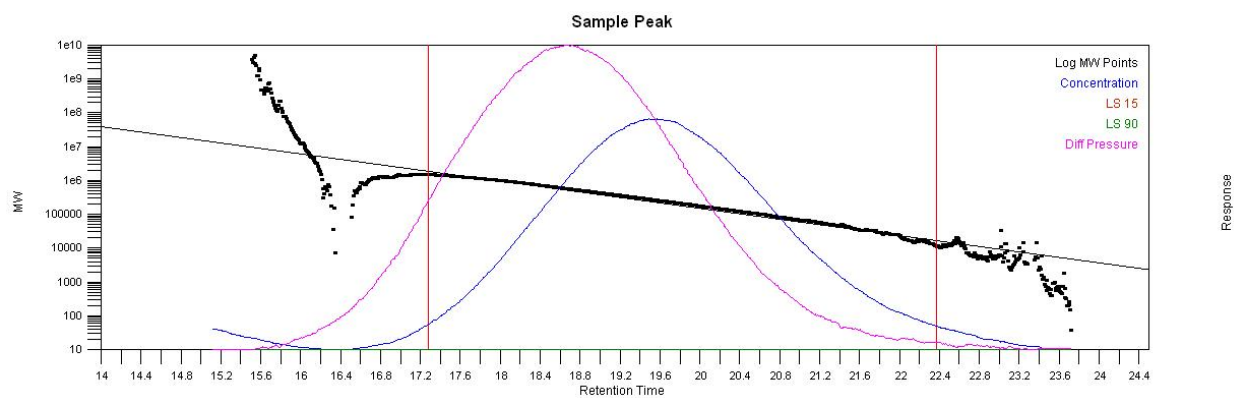


Figure S25: Diagram of log M_w vs Retention Time for PP

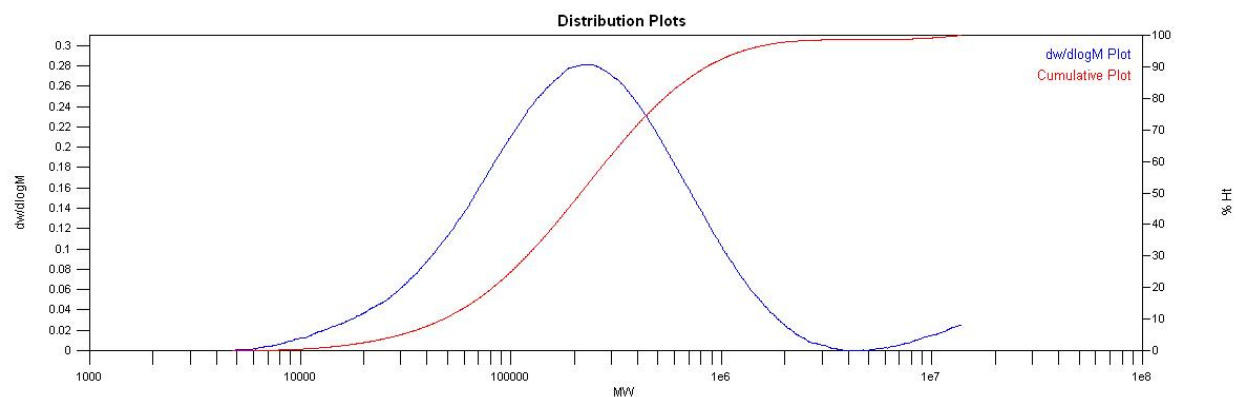


Figure S26: Diagram of $dw/d\log M$ vs $\log M_w$ for PP

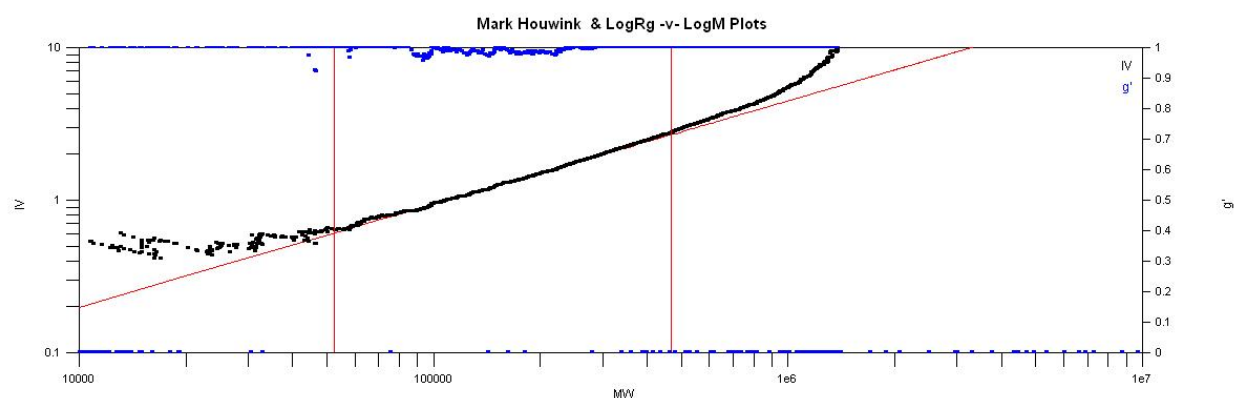


Figure S27: Diagram of IV and g' vs $\log M_w$ for PP

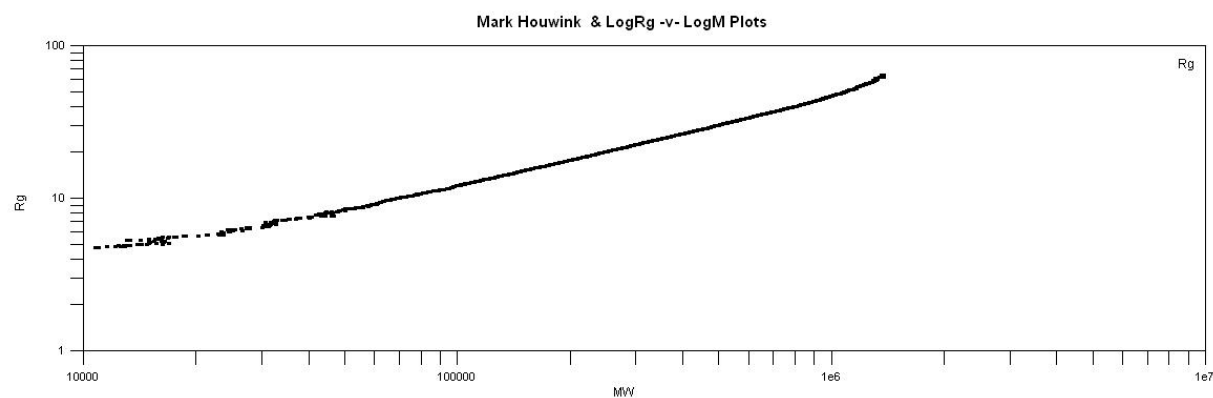


Figure S28: Diagram of R_g vs $\log M_w$ for PP

Table S1: Average molecular weight, PDI, weight fraction, and bulk intrinsic viscosity of samples obtained by GPC analysis#

	HDPE	LLDPE	LDPE	PP
M_p	340620	96195	177110	152954
M_n	17667	44710	38573	72129
M_w	497526	190152	254206	289255
M_z	2340348	610487	827577	2047375
M_{z+1}	4419086	1204601	1782909	5379474
Dispersity	28.161	4.253	6.59026	4.01022
1000000-7000000 %	14.67	2.61679	4.29641	2.6503
100000-1000000 %	37.67	45.7568	52.135	58.7505
1000-100000 %	47.22	51.6265	43.5627	38.3098
Bulk Intrinsic Viscosity (dL/g)	4.6645	3.0178	1.5927	2.224