

Table D3 Ablation studies.

Model	Private link reconstruction attack (AUC%) ↓						Downstream performance on node classification (Micro F1%) ↑					
	Deezer	Facebook-Page	LastFM	DBLP	Amazon	Twitter	Deezer	Facebook-Page	LastFM	DBLP	Amazon	Twitter
Ours	82.35	83.80	83.55	69.92	72.77	67.58	56.05	49.62	23.57	25.93	40.98	65.37
Ours w/o p_{xy}^{keep}	79.37	81.29	80.39	66.73	69.84	66.02	53.39	47.95	20.89	23.75	39.28	63.29
Ours w/o p_{xy}^{del}	86.79	86.26	89.47	76.92	79.15	73.95	56.74	49.98	23.69	26.35	41.26	65.98
Ours w/o $p(\cdot)$	87.95	87.70	88.82	77.49	80.41	74.38	57.32	50.25	23.62	26.08	41.54	66.15
Ours w/o general	82.04	83.46	84.04	70.33	72.54	68.29	55.40	48.90	23.45	25.29	40.72	65.12