

Common Polymers Reference

Acronym	Polymer	Tg(°C)	Tm(°C)	TGA** Decomp T	Linear CTE μ m/m °C	Flexural Modulus(GPa)
ABS	Acrylonitrile Butadiene Styrene	110–125	—	375	65–95	2.07–4.14
PMMA	Polymethylmethacrylate	85–110	—	313	50–90	2.24–3.17
AN	Acrylonitrile	95	135	—	66	3.45–4.07
PTFE	Polytetrafluoroethylene	126*	327	525	70–120	0.525
PVDF	Polyvinylidene Fluoride	-60–-20	170–178	470	70–142	1.72–2.89
Nylon 6	Nylon 6	40–87*	210–220	400	80–83	2.69
Nylon 6,6	Nylon 6,6	50*	255–265	426	80	2.83–3.24
PC	Polycarbonate	140–150	—	473	68	2.35
PBT	Polybutylene Terephthalate	—	220–287	386	60–95	2.28–2.76
PET	Polyethylene Terephthalate	73–80	245–265	414	65	2.41–3.10
PEEK	Polyetheretherketone	150	334	575	40–108	3.86
PEI	Polyetherimide	215–217	—	—	47–56	3.31
LDPE	Low Density Polyethylene	—	98–115	459	100–220	2.40–3.30
HDPE	High Density Polyethylene	—	130–137	469	59–110	1.00–1.55
PI	Polyimide	—	310–365	—	45–56	3.10–3.45
PPO	Polyphenylene Oxide	100–142	—	400	38–70	2.25–2.76
PPS	Polyphenylene Sulfide	88	285–290	508	49	3.79
PP	Polypropylene	-20	160–175	417	81–100	1.17–1.72
PS	Polystyrene	74–109	—	351	50–83	2.62–3.38
PSO	Polysulfone	190	—	510	56	2.69
PES	Polyethersulfone	220–230	—	—	55	2.40–2.62
PVC	Polyvinyl Chloride	75–105	—	265	50–100	2.07–3.45

Source: Modern Plastics Encyclopedia, Mid-October issue, Vol. 66, No.11, McGraw Hill, Inc., New York, New York, 1989.

*Polymer Handbook, second Edition, J. Brandrup, E. H. Immergut, John Wiley and Sons, New York, New York, 1975.

**TA Instruments Library (heating rate of 20°C/min).



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