

The Periodic Table of the elements by Mendeleev was a historic achievement in chemistry and enabled chemists to see the relationship between structure and properties of the basic elements.

Polymers also have a strong relationship between structure and properties and this 'Periodic Table of Polymers' is a first attempt to provide a simple codification of the basic polymer types and structures.

The diversity of polymer types makes it impossible to include all of the variations in one simple table and this table only includes the most common polymers.

Tangram Technology Periodic Table of Thermoplastics

TANGRAM
TECHNOLOGY
Consulting
Engineers

KEY

TS = Tensile Strength at Yield @ 23°C

EAB = Elongation at break

TM = Tensile Modulus @ 23°C

LTST = Long Term Service Temperature

HDT = Heat Deflection Temperature @ 1.8 MPa

Cost = Relative Cost

All properties are for the natural injection moulding grade resin only and do not include polymers with reinforcements or other functional fillers.

Increasing performance

Commodity

Engineering

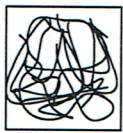
Performance

Amorphous

Semicrystalline

Increasing crystallinity

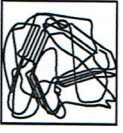
Random molecular orientation in both molten and solid phases.



General Characteristics

Generally transparent.
Lower Tensile Strength and Tensile Modulus.
Lower Density.
Low Creep Resistance.
High Dimensional Stability.
Low fatigue resistance.
Easy to bond using adhesives and solvents (high surface energy).

Random molecular orientation in molten phase, densely packed crystallites in solid phase.



General Characteristics

Sharp melting point. Generally translucent or opaque.
Higher Tensile Strength and Tensile Modulus.
Higher Density.
High Creep Resistance.
Low Dimensional Stability.
High fatigue resistance.
Difficult to bond using adhesives and solvents (low surface energy).

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PS-HI High Impact Polystyrene TS: 19-33 MPa EAB: 40-60% TM: 1.8 GPa LTST: 65-60°C HDT: 60-80°C Cost: ♦	PS-GP General Purpose Polystyrene TS: 40-50 MPa EAB: < 5% TM: 3.2-3.6 GPa LTST: 70-85°C HDT: 72-82°C Cost: ♦♦	ABS Acrylonitrile Butadiene Styrene (Copolymer) TS: 40-50 MPa EAB: 3-20% TM: 2.0-2.6 GPa LTST: 60-65°C HDT: 90-100°C Cost: ♦♦	SAN Styrene Acrylonitrile (Copolymer) TS: 47-72 MPa EAB: 2.0-10% TM: 2.3-4.1 GPa LTST: 65-60°C HDT: 84-95°C Cost: ♦♦♦	SB Styrene Butadiene Styrene (Copolymer) TS: 25-30 MPa EAB: 20-60% TM: 1.8 GPa LTST: 65-77°C HDT: 70-77°C Cost: ♦♦	PMMA Polymethylmethacrylate (Acrylic) TS: 56-70 MPa EAB: 3.0-3.5% TM: 3.0 GPa LTST: 90°C HDT: 35-55°C Cost: ♦♦♦	PPO (Modified) Polysulphone Oxide TS: 40-50 MPa EAB: 10-60% TM: 2.0-5.4 GPa LTST: 80-260°C HDT: 129°C Cost: ♦♦	PC Polycarbonate TS: 55-75 MPa EAB: 110-120% TM: 1.6-2.4 GPa LTST: 95-154°C HDT: 135-140°C Cost: ♦♦	PAR Polycarbonate TS: 68-71 MPa EAB: 50-100% TM: 2.0-2.2 GPa LTST: 130-150°C HDT: 165-175°C Cost: ♦♦♦	PSU Polysulphone TS: 70-76 MPa EAB: 10-80% TM: 1.5-2.7 GPa LTST: 150-180°C HDT: 160-174°C Cost: ♦♦♦	PES Polyethersulphone TS: 70-95 MPa EAB: 40-80% TM: 2.4-2.6 GPa LTST: 180-220°C HDT: 200-210°C Cost: ♦♦♦	PPSU Polyethersulphone (Block copolymer) TS: 63 MPa EAB: 10% TM: 2.4-2.6 GPa LTST: 180°C HDT: 200°C Cost: ♦♦♦	PBI Polybenzimidazole TS: 120-160 MPa EAB: 2.8-3.0% TM: 4.0-6.6 GPa LTST: 260-400°C HDT: 220°C Cost: ♦♦♦♦	
PVC-P Plasticized Polyvinylchloride TS: 6-20 MPa EAB: 50-400% TM: 0.002-0.020 GPa LTST: 50°C HDT: 20°C Cost: ♦	SBS Styrene Butadiene Styrene (Copolymer) TS: 35-40 MPa EAB: 40% TM: 1.8-2.0 GPa LTST: 60°C HDT: 67°C Cost: ♦♦♦	SMA Styrene Maleic Anhydride (Copolymer) TS: 40-52 MPa EAB: 18% TM: 2.0 GPa LTST: 100°C HDT: 105°C Cost: ♦♦	ASA Acrylonitrile Styrene (Copolymer) TS: 35-40 MPa EAB: 15-45% TM: 2.3-2.9 GPa LTST: 82-120°C HDT: 82-120°C Cost: ♦♦	SB Styrene Butadiene Styrene (Copolymer) TS: 25-30 MPa EAB: 20-60% TM: 1.8 GPa LTST: 65-77°C HDT: 70-77°C Cost: ♦♦	PET-G Glycolated Polyethylene terephthalate TS: 55 MPa EAB: 300% TM: 2.6 GPa LTST: 60°C HDT: 70°C Cost: ♦♦♦	PVC-UX Unplasticized PVC TS: 28-40 MPa EAB: 150% TM: 2.5-3.0 GPa LTST: 70-95°C HDT: 120°C Cost: ♦♦♦	PVC-C Chlorinated Polyvinylchloride TS: 53-58 MPa EAB: 25-45% TM: 2.6-2.7 GPa LTST: 90-110°C HDT: 105°C Cost: ♦♦♦	PA 6/6T Amorphous polyamide TS: 60-100 MPa EAB: > 50% TM: 1.4-2.3 GPa LTST: 125°C HDT: 102-123°C Cost: ♦♦♦	PARA Polyaryamide TS: 85 MPa EAB: 2.6% TM: 3.7 GPa LTST: 140°C HDT: 138°C Cost: ♦♦♦♦	PEI Polyetherimide TS: 100-105 MPa EAB: 40-60% TM: 2.7-4.5 GPa LTST: 170-215°C HDT: 200-219°C Cost: ♦♦♦♦	PAI Polyamideimide TS: 90-150 MPa EAB: 2.6-12% TM: 2.5-8.8 GPa LTST: 220-280°C HDT: 275-280°C Cost: ♦♦♦♦	PI Polyimide TS: 72-90 MPa EAB: 6-8% TM: 1.3-4.6 GPa LTST: 250-300°C HDT: 280-300°C Cost: ♦♦♦♦	PBI Polybenzimidazole TS: 120-160 MPa EAB: 2.8-3.0% TM: 4.0-6.6 GPa LTST: 260-400°C HDT: 220°C Cost: ♦♦♦♦
PVC-U Unplasticized Polyvinylchloride TS: 45-55 MPa EAB: 25-60% TM: 2.5-3.0 GPa LTST: 60-70°C HDT: 64-70°C Cost: ♦	CA Cellulose Acetate TS: 30-55 MPa EAB: 5-55% TM: 1.6 GPa LTST: 45-70°C HDT: 48-65°C Cost: ♦♦♦	CAB Cellulose Acetate Butyrate TS: 25-50 MPa EAB: 8-80% TM: 0.7-1.5 GPa LTST: 75-100°C HDT: 62-70°C Cost: ♦♦	CAP Cellulose Acetate Propionate TS: 26-47 MPa EAB: 30-100% TM: 0.7-1.5 GPa LTST: 75-100°C HDT: 45-75°C Cost: ♦♦♦	CP Cellulose Propionate TS: 30-45 MPa EAB: 45-65% TM: 0.8-1.5 GPa LTST: 68-100°C HDT: 61-73°C Cost: ♦♦♦	PET-G Glycolated Polyethylene terephthalate TS: 55 MPa EAB: 300% TM: 2.6 GPa LTST: 60°C HDT: 70°C Cost: ♦♦♦	PVC-UX Unplasticized PVC TS: 28-40 MPa EAB: 150% TM: 2.5-3.0 GPa LTST: 70-95°C HDT: 120°C Cost: ♦♦♦	PVC-C Chlorinated Polyvinylchloride TS: 53-58 MPa EAB: 25-45% TM: 2.6-2.7 GPa LTST: 90-110°C HDT: 105°C Cost: ♦♦♦	PA 6/6T Amorphous polyamide TS: 60-100 MPa EAB: > 50% TM: 1.4-2.3 GPa LTST: 125°C HDT: 102-123°C Cost: ♦♦♦	PARA Polyaryamide TS: 85 MPa EAB: 2.6% TM: 3.7 GPa LTST: 140°C HDT: 138°C Cost: ♦♦♦♦	PEI Polyetherimide TS: 100-105 MPa EAB: 40-60% TM: 2.7-4.5 GPa LTST: 170-215°C HDT: 200-219°C Cost: ♦♦♦♦	PAI Polyamideimide TS: 90-150 MPa EAB: 2.6-12% TM: 2.5-8.8 GPa LTST: 220-280°C HDT: 275-280°C Cost: ♦♦♦♦	PI Polyimide TS: 72-90 MPa EAB: 6-8% TM: 1.3-4.6 GPa LTST: 250-300°C HDT: 280-300°C Cost: ♦♦♦♦	PBI Polybenzimidazole TS: 120-160 MPa EAB: 2.8-3.0% TM: 4.0-6.6 GPa LTST: 260-400°C HDT: 220°C Cost: ♦♦♦♦
PE-LD Low Density Polyethylene TS: 7.0-25 MPa EAB: 50-400% TM: 0.15-0.35 GPa LTST: 40-70°C HDT: 35°C Cost: ♦	PE-LD Linear Low Density Polyethylene TS: 8.0-20 MPa EAB: 50-500% TM: 0.2-1.0 GPa LTST: 44-50°C HDT: 37-44°C Cost: ♦♦	PE-MD Medium Density Polyethylene TS: 14-25 MPa EAB: 50-300% TM: 0.25-0.70 GPa LTST: 38-70°C HDT: 38-43°C Cost: ♦♦♦	PMP Poly(methyl methacrylate) TS: 25-28 MPa EAB: 15-30% TM: 1.0-2.2 GPa LTST: 65-90°C HDT: 40-50°C Cost: ♦♦♦	EVA Ethylene Vinyl Acetate TS: 10-19 MPa EAB: 50-700% TM: 0.04-0.14 GPa LTST: 50°C HDT: 20-23°C Cost: ♦♦♦♦	PEX Crosslinked Polyethylene TS: 18 MPa EAB: 360% TM: 0.6 GPa LTST: 90°C HDT: 60°C Cost: ♦♦♦	PB Polybutene-1 TS: 10-17 MPa EAB: 300-380% TM: 0.21-0.26 GPa LTST: 110°C HDT: 54-60°C Cost: ♦♦♦♦	PEUHMW Ultra-high Molecular Weight Polyethylene TS: 35 MPa EAB: 500% TM: 0.2 GPa LTST: 95°C HDT: 42°C Cost: ♦♦♦	PA 11 Polyamide 11 TS: 20-30 MPa EAB: 30-400% TM: 1.0-2.3 GPa LTST: 120-140°C HDT: 120-130°C Cost: ♦♦♦	PARA Polyaryamide TS: 85 MPa EAB: 2.6% TM: 3.7 GPa LTST: 140°C HDT: 138°C Cost: ♦♦♦♦	PEI Polyetherimide TS: 100-105 MPa EAB: 40-60% TM: 2.7-4.5 GPa LTST: 170-215°C HDT: 200-219°C Cost: ♦♦♦♦	PAI Polyamideimide TS: 90-150 MPa EAB: 2.6-12% TM: 2.5-8.8 GPa LTST: 220-280°C HDT: 275-280°C Cost: ♦♦♦♦	PI Polyimide TS: 72-90 MPa EAB: 6-8% TM: 1.3-4.6 GPa LTST: 250-300°C HDT: 280-300°C Cost: ♦♦♦♦	PBI Polybenzimidazole TS: 120-160 MPa EAB: 2.8-3.0% TM: 4.0-6.6 GPa LTST: 260-400°C HDT: 220°C Cost: ♦♦♦♦
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