

SOLIDWORKS Plastics Feature Matrix



Features	SOLIDWORKS Plastics Standard	SOLIDWORKS Plastics Professional	SOLIDWORKS Plastics Premium
CAD Integration			
SOLIDWORKS Native File Support	✓	✓	✓
Associative with SOLIDWORKS	✓	✓	✓
SOLIDWORKS-embedded	✓	✓	✓
Plastics Material Database			
4,000+ Commercial Plastics	✓	✓	✓
Customizable	✓	✓	✓
Meshing			
Automatic	✓	✓	✓
Boundary Mesh (shell)	✓	✓	✓
Solid 3D Mesh	✓	✓	✓
Global Mesh Refinement	✓	✓	✓
Local Mesh Refinement	✓	✓	✓
Simulation Capabilities			
Filling Phase (1st stage injection)	✓	✓	✓
Packing Phase (2nd stage injection)	X	✓	✓
Automatic Gate Location(s)	✓	✓	✓
Instantaneous Fill Time Plot	✓	✓	✓
Runner Balancing	X	✓	✓
Sink Mark Analysis	✓	✓	✓
Symmetry Analysis (New!)	X	✓	✓
Mold Geometry Support			
Runner Design Wizard	X	✓	✓
Sprues and Runners	X	✓	✓
Hot & Cold Runners	X	✓	✓
Multi-Cavity Molds	X	✓	✓
Family Molds	X	✓	✓
Cooling Lines	X	X	✓

Baffles & Bubblers	X	X	✓
Conformal Cooling Channels	X	X	✓
Mold Inserts	X	X	✓



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Advanced Simulation Capabilities			
Co-Injection	X	✓	✓
Multi-Shot	X	✓	✓
Insert Over molding	X	✓	✓
Gas-Assist	X	✓	✓
Fiber Analysis	X	✓	✓
Reaction Injection Molding (RIM; Thermosets)	X	✓	✓
Birefringence	X	✓	✓
Valve Gates (sequential injection)	X	✓	✓
Venting Analysis (New!)	X	✓	✓
Cooling Line Analysis	X	X	✓
Conformal Cooling Analysis	X	X	✓
Warpage Analysis	X	X	✓
Results (partial listing)			
eDrawings Support (New!)	✓	✓	✓
Fill Time	✓	✓	✓
Ease of Fill	✓	✓	✓
Results Adviser	✓	✓	✓
Nominal Wall Thickness Adviser (New!)	✓	✓	✓
Pressure at End of Fill	✓	✓	✓
Flow Front Temperature	✓	✓	✓
Temperature at End of Fill	✓	✓	✓
Shear Stress	✓	✓	✓
Shear Rate	✓	✓	✓
Cooling Time	✓	✓	✓
Weld Lines	✓	✓	✓
Air Traps	✓	✓	✓
Sink Marks	✓	✓	✓
Sink Mark Profiles	X	X	✓
Frozen Layer Fraction at End of Fill	✓	✓	✓
Clamp Force	✓	✓	✓
Cycle Time	✓	✓	✓
Volumetric Shrinkage	X	✓	✓
Mold Temperature at Cooling End	X	X	✓
Displacement due to Residual Stress	X	X	✓