

POLIFOR® 6000/V0-AF-EP - PP
Description

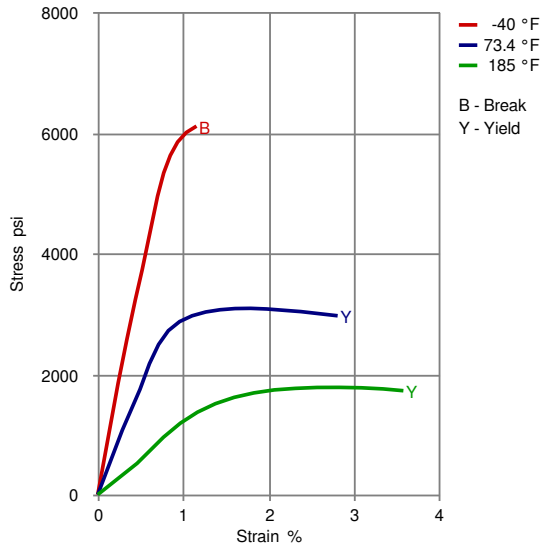
Polypropylene, copolymer, V0, low smoke emission, without halogen and Antimony oxide

Physical properties	Value	Unit	Test Standard
Density	67.4	lb/ft ³	ISO 1183
Melt flow rate, MFR	15	g/10min	ISO 1133
MFR temperature	446	°F	ISO 1133
MFR load	4.76	lb	ISO 1133
Molding shrinkage, parallel (flow)	1.3 - 1.7	%	ISO 294-4, 2577
Molding shrinkage, transverse normal	1.0 - 1.4	%	ISO 294-4, 2577
Mechanical properties	Value	Unit	Test Standard
Tensile stress at yield, 50mm/min	2900	psi	ISO 527-1, -2
Flexural modulus, 23°C	319000	psi	ISO 178
Flexural strength, 23°C	5370	psi	ISO 178
Charpy impact strength, 23°C	14.3	ft-lb/in ²	ISO 179/1eU
Charpy notched impact strength, 23°C	0.761	ft-lb/in ²	ISO 179/1eA
Izod impact notched, 23°C	1.05	ft-lb/in ²	ISO 180/1A
Thermal properties	Value	Unit	Test Standard
Vicat softening temperature, 50°C/h 50N	172	°F	ISO 306
Limiting oxygen index (LOI)	28	%	ISO 4589-1/-2
Flammability @1.6mm nom. thickn.	V-0	class	UL 94
Flammability @3.2mm nom. thickn.	V-0	class	UL 94
Glow wire ignition temperature, 0.8 mm	1470	°F	IEC 60695-2-13
Glow wire flammability index, 0.8 mm	1760	°F	IEC 60695-2-12
Glow wire flammability index, 3.2 mm	1760	°F	IEC 60695-2-12

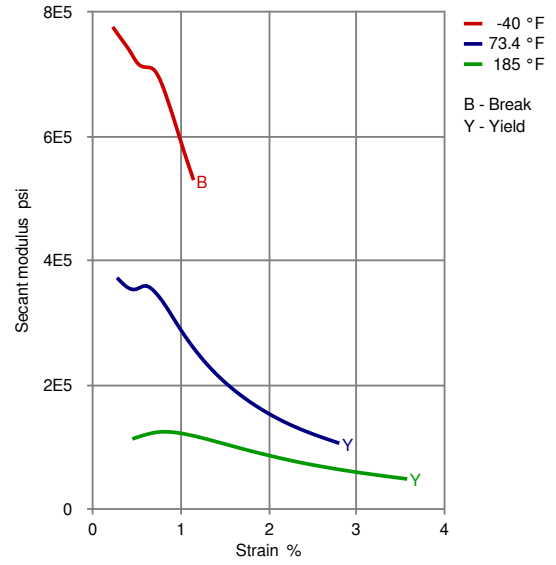
Diagrams

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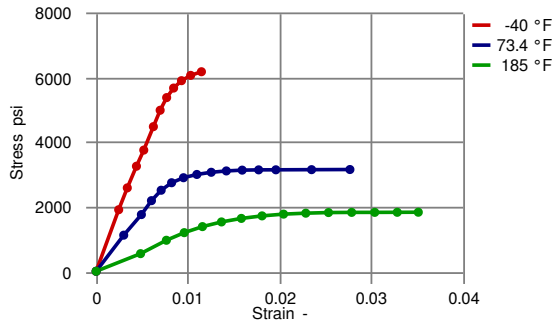
Stress-strain



Secant modulus-strain



True Stress-strain



No yield at -40°C
 23°C yield at 0.01775 strain, 21.608 stress
 85°C yield at 0.02791 strain, 12.546 stress

Typical injection moulding processing conditions

Pre Drying	Value	Unit
Drying time	2 - 3	h
Drying temperature	176 - 212	°F
Temperature	Value	Unit
Zone1 temperature	356 - 392	°F
Zone2 temperature	374 - 410	°F
Zone3 temperature	392 - 428	°F
Melt temperature	392 - 428	°F
Mold temperature	86 - 140	°F

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Other text information

Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

Characteristics

Special Characteristics	Flame retardant
Processing	Injection molding
Additives	Flame retarding agent