

POLIFOR® 5000/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	14	g/10min	ISO 1133
MFR temperature	446	°F	ISO 1133
MFR load	4.76	lb	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile stress at yield, 50mm/min	2900	psi	ISO 527-1, -2
Tensile strain at break, 50mm/min	10	%	ISO 527-1, -2
Flexural modulus, 23°C	290000	psi	ISO 178
Charpy impact strength, 23°C	9.51	ft-lb/in ²	ISO 179/1eU
Charpy notched impact strength, 23°C	0.856	ft-lb/in ²	ISO 179/1eA
Izod impact notched, 23°C	0.951	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)	30	%	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, 3.2 mm	1430	°F	IEC 60695-2-13
Glow wire flammability index, 3.2 mm	1760	°F	IEC 60695-2-12

Electrical properties	Value	Unit	Test Standard
Dielectric constant (Dk), 1.9GHz	3.5	-	IEC 61189-2-721
Dissipation factor, 1.9GHz	39	E-4	IEC 61189-2-721

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
Nozzle temperature	392 - 428	°F
Mold temperature	86 - 140	°F

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