

POLIFOR® 5003/V2-EP NERO - PP

Description

Polypropylene, copolymer, UL94 V2, low halogen content, antimony oxide free

Physical properties	Value	Unit	Test Standard
Density	920	kg/m ³	ISO 1183
Melt flow rate, MFR	17	g/10min	ISO 1133
MFR temperature	230	°C	ISO 1133
MFR load	2.16	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	1500	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	28	MPa	ISO 527-2/1A
Tensile strain at break, 50mm/min	>50	%	ISO 527-2/1A
Flexural modulus, 23°C	1450	MPa	ISO 178
Flexural strength, 23°C	33	MPa	ISO 178
Charpy impact strength, 23°C	>80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	4	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Vicat softening temperature, 50°C/h 50N	75	°C	ISO 306
Flammability @ 1.6mm nom. thickn.	V-2	class	UL 94
UL recognition (1.6)	UL	-	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	2 - 3	h	-
Drying temperature	80 - 100	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	190 - 210	°C	-
Zone2 temperature	200 - 220	°C	-
Zone3 temperature	210 - 230	°C	-
Nozzle temperature	210 - 230	°C	-
Mold temperature	30 - 60	°C	-

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	Additives
Flame retardant	Flame retarding agent

Processing

Injection molding