

**POLIFOR 5000/V0-AF-EP NATURALE
AB140003S****Polypropylene Compound (PP)**

Description	Polypropylene copolymer UL94 V0. Low smoke emission, without halogen and Antimony oxide.
Color	Natural
Markets	Appliances, Electric & Electronic
Applications	Dishwasher electronic board case
Norm compliance	Halogen free IEC 61249-2-21, Compliant with Regulation (EC) No 1907/2006 (REACH)
Certifications	UL listed under file n° E187982
Processing technology	Injection moulding

Physical properties	Typical value (SI)	Typical value (EN)	Test method
Melt Flow Index 230°C/2,16kg	15 g/10min	15 g/10min	ASTM D1238
Density	1.05 g/cm ³	1.05 g/cm ³	ASTM D792
Mold Shrinkage	1.5 %	1.5 %	INTERNAL

Mechanical properties	Typical value (SI)	Typical value (EN)	Test method
Tensile strength at yield	23 MPa	3335 psi	ASTM D638
Tensile elongation at yield	3.2 %	3.2 %	ASTM D638
Tensile elongation at break	22 %	22 %	ASTM D638
Flexural Modulus	1600 MPa	232000 psi	ASTM D790
IZOD impact strength, notched (23 °C)	35 J/m	0.655 ft·lb/inch	ASTM D256
Charpy impact strength, notched (23 °C)	1.5 kJ/m ²	0.713 ft·lb/inch ²	ISO 179 - 1eA
Charpy impact strength, unnotched (23 °C)	20 kJ/m ²	9.51 ft·lb/inch ²	ISO 179 - 1eU

Thermal properties	Typical value (SI)	Typical value (EN)	Test method
Vicat B (50°C/h at 50 N)	77 °C	170.6 F°	ASTM D1525
HDT Heat Deflection Temperature A (1,82 MPa)	60 °C	140 F°	ASTM D648
Ball Pressure Temperature	125 °C	257 F°	IEC 60695-10-2

Flammability	Typical value (SI)	Typical value (EN)	Test method
Flame Rating (1,6 mm)	V0 Class	V0 Class	UL94
Flame Rating (3,2 mm)	V0 Class	V0 Class	UL94
GWFI (Glow Wire Flammability Index)	960/3 °C/mm	960/3 °C/mm	IEC 60695-2-12
GWIT (Glow Wire Ignition Temperature)	775/3 °C/mm	775/3 °C/mm	IEC 60695-2-13
Oxygen Index (LOI)	30 %	30 %	ASTM D2863
Needle Flame Test	OK	OK	





Electrical properties	Typical value (SI)	Typical value (EN)	Test method
CTI Comparative tracking index	600 VOLT	600 VOLT	IEC 60112
Processing conditions	Typical value (SI)	Typical value (EN)	
Drying	2h/80 °C	2h/176 °F	
Injection moulding	Typical value (SI)	Typical value (EN)	
Recommended processing temperatures:			
1st Zone	190 °C	374 °F	
2nd Zone	210 °C	410 °F	
3rd Zone	220 °C	428 °F	
Mould	40-60 °C	104-140 °F	

Storage

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

