



## POLIFOR 5000/V2-EP NATURALE AB140000S

### Polypropylene Compound (PP)

<b>Description</b>	Polypropylene copolymer, flame retardant grade UL94 V-2, low halogen content and PBDE free
<b>Color</b>	Natural
<b>Markets</b>	Automotive, Appliances, Electric & Electronic
<b>Norm compliance</b>	Compliant with Regulation (EC) No 1907/2006 (REACH)
<b>Certifications</b>	UL listed under file n° E187982
<b>Processing technology</b>	Injection moulding

Physical properties	Typical value (SI)	Typical value (EN)	Test method
Melt Flow Index 230°C/2,16kg	12 g/10min	12 g/10min	ASTM D1238
Density	0.93 g/cm <sup>3</sup>	0.93 g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage	1.55 %	1.55 %	INTERNAL
Mechanical properties	Typical value (SI)	Typical value (EN)	Test method
Tensile strength at yield	27 MPa	3915 psi	ASTM D638
Tensile elongation at break	50 %	50 %	ASTM D638
Flexural Modulus	1200 MPa	174000 psi	ASTM D790
IZOD impact strength, notched (23 °C)	70 J/m	1.309 ft-lb/inch	ASTM D256
IZOD impact strength, notched (0 °C)	35 J/m	0.655 ft-lb/inch	ASTM D256
Thermal properties	Typical value (SI)	Typical value (EN)	Test method
Vicat B (50°C/h at 50 N)	70 °C	158 F°	ASTM D1525
HDT Heat Deflection Temperature A (1,82 MPa)	45 °C	113 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)	V2 Class	V2 Class	UL94
Flame Rating (3,2 mm)	V2 Class	V2 Class	UL94
Flame Rating (0,8 mm)	V2 Class	V2 Class	UL94
GWIT (Glow Wire Ignition Temperature)	960 °C/mm	960 °C/mm	IEC 60695-2-13
Oxygen Index (LOI)	23 %	23 %	ASTM D2863
Needle Flame Test	OK	OK	

Processing conditions	Typical value (SI)	Typical value (EN)
Drying	2h/60 °C	2h/140 °F
Injection moulding	Typical value (SI)	Typical value (EN)
Recommended processing temperatures:		
1st Zone	180 °C	356 °F
2nd Zone	190 °C	374 °F
3rd Zone	200 °C	392 °F
Mould	20-40 °C	68-104 °F

### Storage

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

### Disclaimer

The figures reported in this Technical Data Sheet are based on tests and analyses carried out in SO.F.TER. laboratories on injection-moulded specimens. These figures indicate the typical material properties and are not to be considered a specification. The user shall always carry out his own tests and analyses in order to verify the suitability of the material for the specific application. Test carried out at 23°C unless otherwise stated.

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