

POLIFOR 5000/V2 NATURALE AA140014S

Polypropylene Compound (PP)

Description	Polypropylene homopolymer, flame retardant grade UL94 V-2, low halogen content and PBDE free
Color	Natural
Norm compliance	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	12 g/10min	12 g/10min	ASTM D1238
Density	0.93 g/cm ³	0.93 g/cm ³	ASTM D792
Mold Shrinkage	1.65 %	1.65 %	INTERNAL
Mechanical properties	Typical value (SI)	Typical value (EN)	Test method
Tensile strength at yield	30 MPa	4350 psi	ASTM D638
Tensile elongation at break	50 %	50 %	ASTM D638
Flexural Strength	1400 MPa	203000 psi	ASTM D790
IZOD impact strength, notched (23 °C)	35 J/m	0.655 ft.-lb/inch	ASTM D256
IZOD impact strength, notched (0 °C)	15 J/m	0.281 ft.-lb/inch	ASTM D256
Thermal properties	Typical value (SI)	Typical value (EN)	Test method
Vicat B (50°C/h at 50 N)	93 °C	199.4 F°	ASTM D1525
HDT Heat Deflection Temperature A (1,82 MPa)	55 °C	131 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	
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/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.

For technical or commercial information:

EUROPE

SO.F.TER. SPA, Via Mastro Giorgio 1, 47122 Forlì, Italy, tel +39 0543 790411
 info.it@softergroup.com

USA

SO.F.TER. USA, 400 Innovative Way, Lebanon, TN 37090, US, tel +1 844 657 6383 (THINKSOFTER)
 info.us@softergroup.com

BRAZIL

SO.F.TER. BRASIL, Av. Edgar Hoffmeister, 275, CEP 93700-000, Campo Bom, RS, Brazil , tel +55 51 2123 2610
 info.br@softergroup.com

MEXICO

SO.F.TER MEXICO, Circuito Mexiamora Norte 345, Puerto Interior, Silao, G.to , Mexico 36275, tel +52 472 722 6923
 info.mx@softergroup.com

www.softergroup.com