



STIROFOR HI-V2 NATURALE AE140004S

Polystyrene Compound (PS)

Description	Hi-impact polystyrene, flame retardant grade
Color	Natural
Norm compliance	Compliant with Regulation (EC) No 1907/2006 (REACH)
Processing technology	Injection moulding

Physical properties	Typical value (SI)	Typical value (EN)	Test method
Density	1.09 g/cm ³	1.09 g/cm ³	ASTM D792
Mold Shrinkage	0.5 %	0.5 %	INTERNAL
Melt Flow Index 200°C/5kg	15 g/10min	15 g/10min	ASTM D1238
Water absorption (24 h/23°C)	0.06 %	0.06 %	ASTM D570
Mechanical properties	Typical value (SI)	Typical value (EN)	Test method
Tensile strength at yield	40 MPa	5800 psi	ASTM D638
Tensile elongation at break	25 %	25 %	ASTM D638
Flexural Modulus	2400 MPa	348000 psi	ASTM D790
IZOD impact strength, notched (23 °C)	80 J/m	1.496 ft-lb/inch	ASTM D256
Thermal properties	Typical value (SI)	Typical value (EN)	Test method
Vicat B (50°C/h at 50 N)	85 °C	185 F°	ASTM D1525
HDT Heat Deflection Temperature A (1,82 MPa)	77 °C	170.6 F°	ASTM D648
Ball Pressure Temperature	75 °C	167 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
GWIT (Glow Wire Ignition Temperature)	960 °C/mm	960 °C/mm	IEC 60695-2-13
Oxygen Index (LOI)	21 %	21 %	ASTM D2863
Needle Flame Test	OK	OK	
Electrical properties	Typical value (SI)	Typical value (EN)	Test method
CTI Comparative tracking index	500 VOLT	500 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	160 °C	320 °F
2nd Zone	180 °C	356 °F
3rd Zone	190 °C	374 °F
Mould	30-50 °C	86-122 °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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