

Product Datasheet

High Temperature Tag

The BrightCard High Temperature tag is based on reinforced Polymer (SRP) with crystalline structure. This product is intended for applications asking for a big mechanical resistance, for a high thermal and chemical quality, for a very big dimensional stability and for good quality in fire.



Mechanical characteristics:

- Available in 2 diameters: 50mm and 32mm
- Very strong resistance in traction, flexion inflection especially in the wa
- Very good quality at cold flow as well as hot flow (till 200°C)
- Strong resistance in shocks kept even in very low temperature
- Permeability in microwaves.
- Very big dielectric rigidity: 36 - 50 kV / mm

Thermal characteristics:

- High melting point (from 280°C to 355°C)
- The mechanical features are kept on a very broad range of temperature (-50 to 220°C)
- Very good quality in long continued temperature: 220 in 240°C according to UL746.
- Very good quality in fire: UL94 V0 and ILO from 35-50%.

Chemical characteristics:

- Very low resumption of humidity (0.04 %)
- Very good resistance to solvents, oils and lubricants, even at high temperature.
- Very low discharge of smokes: aircraft capabilities

Technical specification:

	NATURAL	+ 30% fv	+ 50% fv	+30% mineral
Max. pressure:	156MPa	188MPa	165MPa	148MPa
Max. change of length:	2,6%	2,1%	1,1%	1,6%
Module of resiliency:	10400MPa	15000MPa	21000MPa	14200MPa
Resistance in shock:	39kJ/m	20kJ/m	12kJ/m	-
TFC a 0,45MPa:	222°C	254°C	251°C	235°C
TFC a 1,85MPa:	180°C	230°C	232°C	230°C
Coefficient of dilatation:	-5,10K	-5,10K	-5,10K	-
Dielectric rigidity:	7kV/mm	50kV/mm	36kV/mm	-
Absorption of water:	0,03%	0,04%	0,04%	0,03%

Dimensions:	50 x 5mm 32 x 4mm
Antenna type:	Round antenna 27mm
Material:	SRP Polymer
Operating frequency:	125 kHz and 13,56 MHz
IC type:	EM4100 / NXP I-CSLI
Order number:	DT-HT-4100-xx DT-HT-ICSLI-xx

Technology by:

