



PA6-TAG-34

125kHz EM4102 chip inside



Chip type:	EM4102 (UNIQUE) – read only 64bit		* Test conditions and remarks
Physical:	Diameter:	34 mm ± 0.3 mm	
	Thickness:	8.0 mm ± 0.3 mm	
	Hole:	5.4 mm ± 0.3 mm	
	Weight:	7.8 g	
	Material:	PA6 High impact	
	Color:	Black	
Electrical:	Operating frequency:	125 kHz ± 6 kHz	*At room temperature
Chemical:	Water immersion IP 68 More information in material data sheet		*20°C, 24h, 1m
Mechanical:	Vibration	IEC 68.2.6	*10g, 10...2000Hz, 3 axis, 2.5h
	Shock	IEC 68.2.29	*40g, 18ms, 6 axis, 2000 times
Thermal:	Storage:	-40°C to +100°C +120°C	* 1x 1000h * 1x 100h
	Shock/fatigue:	-40°C to +120°C	* 50x 10min with transition in 30s
	Operating:	-40°C to +100°C	
Article number:	TG-001/043-11		



Description:

The PA6-TAG-34 is reinforced with glass fiber.
It is particularly resistant to high impact and low temperature applications.

Its major characteristics are:

- high mechanical resistance
- good chemical resistance

General Properties:

Properties	Data	Standard	Test method
Maximum usage temperature	100°C		
Flammability at 1.6mm	HB		UI94

Chemical stability level:

Substance	Stability	
Acetic acid 10%	++	
Acetone	+	
Ammonia	+	
Benzene	+	
Ethanol	+	
Ethylene chlorohydrin	++	+ = Resistant
Fuel	+	
Methanol	+	++ = Limited resistance
Methyl ethyl ketone	+	
Mineral oils	+	- = Not resistant
Petrol	+	
Sulphuric acid 2%	-	
Toluene	+	
Trichloroethylene	++	
Water	+	

The recommendations and data given are based on experimental experience. TAGnology RFID GmbH cannot guarantee that the required properties will be fulfilled under all circumstances. These data are valid for the plastic material only and are not necessarily the same as the data of the product specifications.