

Nano4elec – PP ECV013

Nano4elec is a family of conductive thermoplastic compounds that meet the requirements for V0 classification. The electrical conductivity is achieved by adding different conductive carbon blacks. The flame retardant behavior is obtained by adding phosphorous flame retardant agent. Nano4elec – PP ECV013 is an electrically conductive thermoplastic compound based on polypropylene. In addition to antistatic activity PP ECV013 is classified V0 following UL94.

Properties

properties	Method	Value	unit
Density	intern	1,2	g/cm ³
MFI	230°C/12,5 kg	0,7	g/ 10 min
MFR	230°C/12,5 kg	0,6	cc/ 10 min
Tensile modulus	ISO 527-1	1700	MPa
Tensile stress at yield	ISO 527-1	25	MPa
Tensile strain at yield	ISO 527-1	2	%
Tensile strain at break	ISO 527-1	2	%
Charpy unnotched impact strength	ISO 179-1 (23°C ; type 1 ; Edgewise)	4,5	kJ/m ²
Hardness	Shore D	50	-
Electrical conductivity	intern	1,5	Ω.cm
Thermal conductivity	Hot ring	0,2	W/mK
Thermal diffusivity	Hot ring	2,5x10 ⁻⁷	m ² /s
Fire resistance	UL 94 - V	V0	-

Processing:

It is suggested to process PPECV013 within the temperature range 190-230°C.
Do not heat above 250°C, degradation may occur.

Handling and storage:

The available data for handling and storage could be found in the Material Safety Data Sheet of this product.

Applications:

This product is suitable for electronic parts, EMI shielding application.

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Information contained in this technical datasheet are reliable. They are presented for guidance only.
Users should take care in determining the suitability of such product for the intended use.