

Nano4elec – PP ECMB13

Nano4elec is a family of conductive thermoplastic compounds. The electrical conductivity is achieved by adding different conductive carbon blacks. Nano4elec – PP ECMB13 is an electrically conductive masterbatch based on polypropylene.

Properties

properties	Method	Value	unit
Density	intern	0,8	g/cm ³
MFI	230°C/2,16 kg	5	g/ 10 min
MFR	230°C/2,16 kg	6	cc/ 10 min
Melt temperature peak	DSC	167	°C
Processing temperature		190-230	°C
Young modulus	ISO 527-1	2800-3200	MPa
Tensile stress at break	ISO 527-1	20-40	MPa
Tensile elongation at break	ISO 527-1	2	%
Charpy unnotched impact strength	ISO 179-1 (23°C ; type 1 ; Edgewise)	20	kJ/m ²
Hardness	Shore D	50	-
Electrical conductivity	intern	3	Ω.cm
Thermal conductivity	Hot wire	0,15	W/mK

Processing:

It is suggested to process PPECMB13 within the temperature range 190-230°C.

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.

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.