

## Premix Thermoplastics PRE-ELEC® ESD 5000 Polyolefin Compatible Dissipative Masterbatch, IDP Additive

Category : Polymer , Thermoplastic , Polyolefin, Film Grade , Polypropylene (PP)

### Material Notes:

PRE-ELEC® ESD 5000 is a polyolefin compatible dissipative masterbatch developed for PP injection moulded products. The active substance is an IDP (inherently dissipative polymer) and it gives a permanent dissipative property also at low humidity. The surface resistance level at  $1 \times 10^8 - 1 \times 10^{12}$  ohms can be achieved at 8-20 % dosing level (EOS/ESD S11.11-1993, IEC 61340-5-1). The let down ratio of the masterbatch should be tested prior to its use with the polymer used in order to reach the desired dissipative level. PRE-ELEC® ESD 5000 can be used in clean room applications. The processing temperature should be less than 220 °C (430 °F) and the material should be pre-dry before processing. Information from Premix OY

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Premix-Thermoplastics-PRE-ELEC-ESD-5000-Polyolefin-Compatible-Dissipative-Masterbatch-IDP-Additive.php](http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-5000-Polyolefin-Compatible-Dissipative-Masterbatch-IDP-Additive.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 190 °C	11 g/10 min @Load 4.76 lb, Temperature 374 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+8 - 1.00e+12 ohm	1.00e+8 - 1.00e+12 ohm	At 8-20% Dosing; ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Processing Temperature	<= 220 °C	<= 428 °F	
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	Pre-drying in a dehumidifier
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	<= 0.25 %	<= 0.25 %	when produced

Descriptive Properties	Value	Comments
Appearance	Granule	
Colour	Yellowish	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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