

## Premix Thermoplastics PRE-ELEC® ESD 4400 Static Dissipative Thermoplastic Compound

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

### Material Notes:

PRE-ELEC® ESD 4400 is a static dissipative thermoplastic compound based on PE-LD. The dissipative property is permanent and built into the polymer chain. PRE-ELEC® ESD 4400 has been developed for multilayer film blowing. It can also be injection moulded. Surface resistance values of 109 ohms (EOS/ESD S11.11-1993, IEC 61340-5-1) can be achieved with optimum processing parameters. Applications: Multilayer bags and sacks which give permanent ESD protection for the electronics, medical, pharmaceutical and agricultural industries. PRE-ELEC® ESD 4400 gives also good printability without treatment and can be coloured into various bright colours. Processing: PRE-ELEC® ESD 4400 compound can be processed on conventional PE-LD and PE-LLD blown film extrusion lines. Information from Premix OY

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Premix-Thermoplastics-PRE-ELEC-ESD-4400-Static-Dissipative-Thermoplastic-Compound.php](http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-4400-Static-Dissipative-Thermoplastic-Compound.php)

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in <sup>3</sup>	
Thickness	30.0 - 50.0 microns	1.18 - 1.97 mil	
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	30.0 MPa	4350 psi	ISO 527
Film Tensile Strength at Yield, TD	18.0 MPa	2610 psi	ISO 527
Film Elongation at Break, MD	520 %	520 %	ISO 527
Film Elongation at Break, TD	475 %	475 %	ISO 527
Film Elongation at Yield, MD	520 %	520 %	ISO 527
Film Elongation at Yield, TD	320 %	320 %	ISO 527
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ISO 527
Film Tensile Strength at Break, TD	21.0 MPa	3050 psi	ISO 527

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+11 ohm	<= 1.00e+11 ohm	ISO IEC 61340-5-1
Static Decay	<= 2.0 sec	<= 2.0 sec	ISO IEC 61340-5-1

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Zone 1	180 - 200 °C	356 - 392 °F	Extruder
	200 - 225 °C	392 - 437 °F	Die
Zone 2	185 - 205 °C	365 - 401 °F	Extruder
	200 - 225 °C	392 - 437 °F	Die
Zone 3	190 - 210 °C	374 - 410 °F	Extruder
	200 - 225 °C	392 - 437 °F	Die
Zone 4	195 - 215 °C	383 - 419 °F	Extruder
	200 - 225 °C	392 - 437 °F	Die
Zone 5	200 - 220 °C	392 - 428 °F	Extruder
	200 - 225 °C	392 - 437 °F	Die
Blow-up Ratio (BUR)	>= 1.5	>= 1.5	
Drying Temperature	60.0 °C	140 °F	
Dry Time	3 hour	3 hour	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China