

## Irgastat® P 18 FCA

Technical DataSheet | Supplied by BASF

Irgastat® P 18 FCA by BASF is a polymeric system based on polyamide/polyether block amide. Acts as an anti-static agent. It is incorporated as melt additive. Irgastat® 18 FCA is non-sparking, transparent, thermally stable and effective at low humidity (8 /sq can be achieved, depending on substrate. It forms more distinct fiber network and requires lower addition levels. Compatible with polyolefins. Irgastat® P 18 FCA is suitable for use in electronic and industrial packaging, housings and parts of business machines and also thermoplastic polymers, transparent film, fiber or molded applications. Recommended dosage is 4–15 %.

<b>Product Type</b>	Anti-static Agents
<b>Chemical Composition</b>	Polymeric system based on polyamide/polyether block amide
<b>Physical Form</b>	Granules
<b>Appearance</b>	White to slightly yellowish
<b>Product Status</b>	COMMERCIAL
<b>Applications/ Recommended for</b>	PA, Nylon Electronics / Computers Engineering / manufacturing > Production machines Fibers/ Textiles/ Carpets > Fibers Packaging > Industrial / Agriculture / Consumer goods

## Irgastat® P 18 FCA Properties

Property	Value & Unit	Test Condition	Test Method
<b>Surface Resistivity</b>	$8 \times 10^7$ ohm/sq	Measured on Pure IRGASTAT P Films	ASTM D257
<b>Volume Resistivity</b>	$3 \times 10^8$ ohm-cm	Measured on Pure IRGASTAT P Films	ASTM D257
<b>Charge Decay</b>	< 0.02 s		MIL B-81705
<b>Refractive Index</b>	1.501	At 22°C	

<b>Melting Point</b>	176 °C		
<b>Water Absorption</b>	5 %	At 23°C in Water	ASTM D3418
<b>Bulk Density</b>	0.61 g/ml		
<b>Specific Gravity</b>	1.04		
<b>Volatility</b>	280 °C	At 1% Mass Loss	
<b>Volatility</b>	354 °C	At 5% Mass Loss	
<b>Volatility</b>	370 °C	At 10% Mass Loss	
<b>Melt Mass-Flow Rate (MFR)</b>	17 - 21 g/10 min	At 230°C. 2.16 kg	

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