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PP FC03

POLYPROPYLENE HOMOPOLYMER (PP)

A high-purity polypropylene homopolymer developed for biaxially oriented polypropylene (BOPP) capacitor membrane. The resin is engineered with tightly controlled molecular structure to deliver the tensile and thermal stability required for high-speed biaxial orientation, along with the low ash and extractable content that electrical film applications demand.

Typical Application	Product Characteristics	International Compliance
- Biaxially oriented polypropylene (BOPP) capacitor membrane - High-voltage and metallized-film capacitor dielectric film	- High-purity resin formulated for low ash and low extractable content in electrical-grade film - High isotacticity for uniform crystallinity and stable dielectric performance - Good tensile and thermal stability supporting high-speed biaxial orientation	RoHS

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (230°C/2.16kg)	ASTM D1238	3.0	g/10 min
Tensile Stress at Yield		33	MPa
Isotactic Index		98	%
Ash Content		0.002	%

- The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.
- Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at order.
- Melt flow is reported as 3.0 g/10 min per the family brochure and as 3.1 g/10 min in a separate producer catalog excerpt for this same grade; the difference is within normal batch variance.