

Teflon® FFR 430

Fluoropolymer

DuPont Fluoropolymers

Message:

DuPont™ Teflon® FFR 430 fluoroplastic foam resin has been developed with a superior nucleant package to provide improved foam cell structure and a broader processing window. It has the lowest melt flow (7) of the FFR resins, making it best suited for the larger plenum coax cables, particularly when the lowest smoke generation is a key design consideration. The foamed insulation of Teflon® FFR 430 fluoroplastic foam resin provides high-speed data transmission with minimal distortion, and good cable structural return loss with reduced attenuation. FFR 430 offers cable designers opportunities for reducing cable size with cable weight savings or the use of larger conductors to construct low-loss cables without the need for increased dielectric dimensions.

This resin is supplied as white pellets, and is used in a nitrogen gas-injected foam extrusion process to produce uniform foam cells in the insulation. Achievable cell size and void content will vary based on wall thickness and processing conditions.

General Information			
Additive	Nucleating Agent		
Features	Low Flow		
	Nucleated		
Uses	Insulation		
	Wire & Cable Applications		
Appearance	White		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	7.0	g/10 min	ASTM D2116, ISO 12086
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	260	°C	ASTM D4591
Electrical	Nominal Value		Test Method
Dielectric Constant			IEC 60250
1 kHz	2.04		ASTM D150
1 MHz	2.04		ASTM D150
1.00 GHz	2.04		ASTM D2520
Dissipation Factor			IEC 60250
1 kHz	1.0E-4		ASTM D150
1 MHz	6.0E-4		ASTM D150
1.00 GHz	9.0E-4		ASTM D2520

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