

Teflon® FEP TE-9568

Perfluoroethylene Propylene Copolymer

DuPont Fluoropolymers

Message:

Description

DuPont™ Teflon ® FEP TE-9568 fluoropolymer resin is a negatively charged, hydrophobic colloid containing approximately 54% (by total weight) of 0.1 to 0.30 µm fluorinated ethylene propylene (FEP) particles suspended in water. It also contains approximately 6% (by weight of FEP resin) of a nonionic wetting agent and stabilizer. Color is off-white and nominal pH is 10.0. Viscosity at room temperature is approximately 25 cP.

Teflon ® TE-9568 is a general-purpose dispersion. It can be used to impart some of the unique properties of Teflon ® FEP resin to end products that would be difficult to make using traditional melt extrusion processes. It can be used to coat or impregnate porous structures or to make thin films. It can be coated and melt bonded to polytetrafluoroethylene (PTFE) resin or used as a hot melt adhesive.

The Teflon ® FEP resin in TE-9568 is a true thermoplastic, providing superior properties typical of the fluoropolymer resins: retention of properties after service at 204°C (400°F), useful properties at -240°C (-400°F), chemical inertness to nearly all industrial chemicals and solvents, and excellent dielectric properties. Refer to Table 1 for typical property data.

Typical End Products

Teflon ® FEP TE-9568 is suitable for many end products, including: heat-sealable top coatings for PTFE-coated fabrics used for belting, circuit boards, or electrical insulation; cast film for capacitors or chemical barriers; and as a hot melt adhesive for bonding molded PTFE or FEP parts to themselves or to each other.

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Electrical Properties		
Uses	Adhesives		
	Cast Film		
	Coating Applications		
	Film		
Agency Ratings	FDA 21 CFR 177.1550.2		
Appearance	Off-White		
Forms	Dispersion		
Processing Method	Dip Coating		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 8962
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	7.0	g/10 min	ASTM D2116, ISO 12086
Solution Viscosity			
--	25	mPa·s	ISO 2555
--	25	mPa·s	ASTM D2196
Average Particle Size	180	nm	
pH			
--	10.0		ASTM E70
--	10.0		ISO 1148
Solids Content			

--	54	%	ASTM D4441
--	54	%	ISO 12086
Weight - dry	760	kg/m ³	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	260	°C	ASTM D2116

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