

Teflon® PFA D 335D

Perfluoroalkoxy
DuPont Fluoropolymers

Message:

DuPont™ Teflon ® PFAD 335D is an off-white aqueous perfluoroalkoxy (PFA) dispersion stabilized with a non-ionic surfactant. It is a general-purpose dispersion that can be used to impart some the unique properties of PFA 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 PFA resin in PFAD 335D is a melt flowable thermoplastic, providing superior properties typical of fluoropolymer resins: retention of properties after service at 260 °C (500 °F) and useful properties at -240 °C (-400 °F).

PFAD 335D aqueous dispersion provides:

- inertness to nearly all industrial chemicals and solvents
- stability at high temperatures
- excellent dielectric properties
- excellent weatherability
- excellent anti-stick properties

Typical Applications

- Heat-sealable top coatings for PTFE-coated fabrics for belting, circuit boards, architectural fabrics and electrical insulation
- Cast film for capacitor dielectrics or chemical barriers
- Holt melt adhesive for PTFE, PFA and FEP parts
- Metal coatings

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Electrical Properties		
	Good Weather Resistance		
	Non-Stick		
	Solvent Resistant		
Uses	Adhesives		
	Cast Film		
	Coating Applications		
	Film		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1550		
Forms	Dispersion		
Processing Method	Cast Film		
	Coating		
	Dip Coating		
	Spraying		
Physical	Nominal Value	Unit	Test Method

Density ¹	1.50	g/cm ³	ISO 12086, ASTM D4441
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	2.0	g/10 min	ASTM D2116, ISO 12086
Average Particle Size	200	nm	Internal Method
pH			
--	10.0		ASTM E70
--	10.0		ISO 1148
Solids Content - % PFA by weight			
--	60	%	ASTM D4441
--	60	%	ISO 12086
Brookfield Viscosity			
25°C	25	mPa·s	ISO 2555
25°C	25	mPa·s	ASTM D2196
Surfactant Content - based on PFA solids			
--	6.0	%	ISO 12086
--	6.0	%	ASTM D4441
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	305	°C	ISO 12086, ASTM D2116
NOTE			

1. at 60% solids

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