

Teflon® FEP D 121

Perfluoroethylene Propylene Copolymer

DuPont Fluoropolymers

Message:

DuPont™ Teflon ® FEPD 121 is an off-white aqueous fluorinated ethylene propylene (FEP) dispersion stabilized with a non-ionic surfactant. It is a general-purpose dispersion that can be used to impart some the unique properties of FEP 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 FEP resin in FEPD 121 is a melt flowable thermoplastic, providing superior properties typical of fluoropolymer resins: retention of properties after service at 204 °C (400 °F) and useful properties at -240 °C (-400 °F).

FEPD 121 aqueous dispersion provides:

inertness to nearly all industrial chemicals and solvents

stability at high temperatures

excellent dielectric properties

excellent weatherability

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

Hot 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		
Uses	Adhesives		
	Cast Film		
	Coating Applications		
	Film		
Agency Ratings	EU 10/2011 2		
	FDA 21 CFR 177.1550 2		
Forms	Dispersion		
Processing Method	Dip Coating		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.41	g/cm ³	ISO 12086, ASTM D4441
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	8.0	g/10 min	ASTM D2116, ISO 12086
Average Particle Size	180	nm	Internal Method
pH			
--	10.0		ASTM E70
--	10.0		ISO 1148
Solids Content - % FEP by weight			

--	55	%	ASTM D4441
--	55	%	ISO 12086
Brookfield Viscosity			
25°C	25	mPa·s	ISO 2555
25°C	25	mPa·s	ASTM D2196
Surfactant Content - based on FEP solids			
--	5.5	%	ISO 12086
--	5.5	%	ASTM D4441
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	260	°C	ISO 12086, ASTM D2116
NOTE			
1.	at 55% solids		

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