

Teflon® PTFE DISP 40

Polytetrafluoroethylene

DuPont Fluoropolymers

Message:

DuPont™ Teflon ® PTFE DISP 40 is a milky white aqueous PTFE dispersion stabilized with a non-ionic surfactant. It is designed to provide enhanced shear stability and can be used in coating and additive applications. It imparts properties unique to PTFE resin to porous structures, as well as to base materials when used as an additive. When properly processed, the PTFE resin in DISP 40 exhibits the superior properties typical of the fluoropolymer resin: retention of properties after service at 260 °C (500 °F), and useful properties at -240 °C (-400 °F).

DISP 40 aqueous dispersion provides:

higher
shear
stability
for
improved
mixing
and processing
inertness
to
nearly
all
chemicals
and solvents
in
commercial use
stability
at
high
temperatures
excellent
dielectric
properties
lowest
coefficient
of
friction
of
any solid
material
excellent
weatherability
non-stick
characteristics
Typical Applications
Coated
woven
fiber-glass
fabric
used
in architectural, high-performance industrial, food processing and electronics applications
Impregnated
packing
made
from
braided
fibers
for
severe chemical and thermal service
Cast

film
for
capacitor
dielectrics
or chemical
barriers
Formulated
surface
coatings
for
metallic
or other
high-temperature substrates
Anti-drip
additive
for
plastics
Binder
for
battery
anode
or
cathode matrixes
Teflon ®
PTFE
DISP
40
meets
the requirements
of
ASTM
D
4441-98,
type I,
grade
2,
class
A.

General Information	
Features	Food Contact Acceptable
	Good Chemical Resistance
	Good Electrical Properties
	Good Processability
	Good Weather Resistance
	Low Friction
	Non-Stick
	Solvent Resistant
Uses	Additive
	Binder
	Cast Film
	Coating Applications
	Electrical/Electronic Applications

Fabric Coatings
Non-specific Food Applications

Agency Ratings	EU 10/2011 FDA 21 CFR 177.1550
Appearance	White
Forms	Dispersion
Processing Method	Cast Film Dip Coating Spraying

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	2.21	g/cm ³	ISO 12086, ASTM D4895
-- ²	1.51	g/cm ³	ISO 12086, ASTM D4441
Average Particle Size	230	nm	Internal Method
pH			
--	10.0		ASTM E70
--	10.0		ISO 1148
Solids Content - % PTFE 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 PTFE solids			
--	6.0	%	ISO 12086
--	6.0	%	ASTM D4441

NOTE

1. of Sintered Resin
2. at 60% solids

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