

Teflon® PTFE 605XT X

Polytetrafluoroethylene

DuPont Fluoropolymers

Message:

DuPont™ Teflon® PTFE 605XT X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon® PTFE 605XT X offers the excellent combination of properties typical of the Teflon® fluoropolymer resins:

non-aging
characteristics;
chemical
inertness
to
nearly
all industrial
chemicals
and solvents;
exceptional
dielectric
properties,
stable
with frequency
and temperature;
toughness
and
flexibility;
low
coefficient
of
friction;
non-stick
characteristics;
negligible
moisture
absorption;
excellent
weather
resistance;
service
temperature
up
to
260°C (500°F);
useful
properties
at
-240
°C
(-400
°F);
moderate
stiffness
and
high
ultimate elongation.
Teflon®
PTFE
605XT
X
is

designed
for processing
at
low
to medium reduction ratios of 10:1 to 300:1. It is particularly suitable for unsintered stretched products and for sintered products
with
high
mechanical
properties.
Teflon ®
PTFE
605XT
X
meets
the requirements
of
ASTM D
4895-91a,
Type
I,
Grade
4,
Class
A.
Typical Applications
Teflon ® PTFE 605XT X is mainly used for unsintered articles including
filter
membranes
and gaskets.
It
is
also
used
for making
sintered
products
such
pipe
liners
and
tubes.

General Information	
Features	Food Contact Acceptable
	Good Chemical Resistance
	Good Electrical Properties
	Good Flexibility
	Good Stiffness
	Good Toughness
	Good Weather Resistance
	High Elongation
	High ESCR (Stress Crack Resist.)
	Low Friction
	Low Moisture Absorption
	Solvent Resistant

Uses	Gaskets		
	Liners		
	Membranes		
	Tubing		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1550		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.15	g/cm³	ISO 12086, ASTM D4895
Apparent Density	0.54	g/cm³	ASTM D4895, ISO 12086
Average Particle Size			
--	680	µm	ISO 12086
--	680	µm	ASTM D4895
Extrusion Pressure - at RR = 100:1			
--	7.00	MPa	ISO 12086
--	7.00	MPa	ASTM D4895
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			ASTM D4895, ISO 12086
-- ¹	326	°C	
-- ²	344	°C	
NOTE			
1.	Second		
2.	Initial		

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