

# Teflon® PTFE 62XT X

Polytetrafluoroethylene

DuPont Fluoropolymers

## Message:

DuPont™ Teflon® PTFE 62XT X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon® PTFE 62XT 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.

Compared  
with  
other  
grades  
of PTFE  
fine  
powder,  
Teflon® PTFE 62XT X is a premium resin that has increased thermal stability,  
superior  
flex  
life,  
superior  
stress  
crack  
resistance,  
low permeability  
and  
high  
clarity.  
Teflon®  
PTFE  
62XT  
X  
is  
designed  
for processing  
at  
medium  
to high  
reduction  
ratios  
of  
400:1  
to  
1600:1.  
It  
is particularly  
suitable for  
production  
of

high quality  
tubing,  
spaghetti  
tubing  
and  
wire coating.  
This  
grade  
is  
also  
highly  
suitable  
for after-processing technologies  
such  
as  
flanging, welding,  
blow  
moulding  
and convoluting.  
Teflon ®  
PTFE  
62XT  
X  
meets  
the following  
requirements:  
ASTM  
D4895-10,  
Type  
I,  
Grade  
3,  
Class  
D  
Typical Applications  
Teflon ® PTFE 62XT X is used primarily in the production of tubing  
installed  
in  
applications  
requiring  
the ultimate  
in  
reliability and  
performance. Applications  
are  
found  
in  
the chemical, pharmaceutical,  
and  
automotive  
industries where  
contact  
with hydraulic  
fluid,  
hydrocarbon  
fuel  
or  
reactive  
gases  
is  
required. One  
such

application  
is  
high  
pressure tubing  
in  
heat  
exchangers.

General Information			
UL YellowCard	E54681-244687		
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Flexibility		
	Good Stiffness		
	Good Thermal Stability		
	Good Toughness		
	Good Weather Resistance		
	High Clarity		
	High Elongation		
	High ESCR (Stress Crack Resist.)		
	Low Friction		
	Low Moisture Absorption		
	Solvent Resistant		
Uses	Coating Applications		
	Tubing		
	Wire & Cable Applications		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1550		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.16	g/cm <sup>3</sup>	ISO 12086, ASTM D4895
Apparent Density	0.47	g/cm <sup>3</sup>	ASTM D4895, ISO 12086
Average Particle Size			
--	370	µm	ISO 12086
--	370	µm	ASTM D4895
Thermal Instability Index			
--	< 7.00		ISO 12086
--	< 7.00		ASTM D4895
Extrusion Pressure - at RR = 1600:1			

--	38.5	MPa	ISO 12086
--	38.5	MPa	ASTM D4895
Stretching Void Index			
--	< 50.0		ASTM D4895
--	< 50.0		ISO 12086
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			ASTM D4895, ISO 12086
-- <sup>1</sup>	323	°C	
-- <sup>2</sup>	341	°C	
NOTE			
1.	Second		
2.	Initial		

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