# Teflon® PTFE 62N X

Polytetrafluoroethylene

DuPont Fluoropolymers

## Message:

DuPont ™ Teflon ® PTFE 62N X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon ® PTFE 62N 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 62N X is a premium resin that has increased thermal stability,
superior
flex
life,
superior
stress
crack
resistance,
low permeability
and
high
clarity.
Teflon ®
PTFE
62N
X
is
designed
for processing
at
low
to
medium reduction
ratios
of
100:1
to 600:1.
It
is
in
particular
suitable
for production
of
high
quality
tubing,

spaghetti
tubing
,wire
coating and
extruded
shapes.
This
grade
is
also highly
suitable
for
after processing
technologies
such
as
flanging,
welding,
blow moulding,
convoluting.
Teflon ®
PTFE
62N
X
meets
the requirements
of
ASTM
D4895-10, Type
I,
Grade
4,
Class
B.
Typical Applications
Teflon ®
PTFE
62N
X
is
mainly
used for
tubing
installed
in demanding
applications.
It
includes
high
performance
articles such
as
reinforced
hose
requiring
the
ultimate
in
reliability
and performance
in
chemical,

pharmaceutical
and
automotive industry
in
use
with
hydraulic
fluid,
hydrocarbon
fuel
or reactive gas.
Such
applications
are
for example
overbraided
hoses
for fuel
assemblies
and
brake
systems.

| General Information | |
|---|---|
| UL YellowCard | E54681-244687 |
| Features | Food Contact Acceptable<br>Good Chemical Resistance<br>Good Flexibility<br>Good Stiffness<br>Good Thermal Stability<br>Good Toughness<br>Good Weather Resistance<br>High Clarity<br>High Elongation<br>High ESCR (Stress Crack Resist.)<br>Low Friction<br>Low Moisture Absorption<br>Solvent Resistant |
| Uses | Coating Applications<br>Hose<br>Tubing<br>Wire & Cable Applications |
| Agency Ratings | EU 10/2011<br>FDA 21 CFR 177.1550 |
| Forms | Powder |

| Processing Method | Extrusion | | |
|---|---|---|---|
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 2.14 | g/cm³ | ISO 12086, ASTM D4895 |
| Apparent Density | 0.50 | g/cm³ | ASTM D4895, ISO 12086 |
| Average Particle Size | | | |
| -- | 480 | µm | ISO 12086 |
| -- | 480 | µm | ASTM D4895 |
| Thermal Instability Index | | | |
| -- | < 7.00 | | ISO 12086 |
| -- | < 7.00 | | ASTM D4895 |
| Extrusion Pressure - at RR = 400:1 | | | |
| -- | 23.0 | MPa | ISO 12086 |
| -- | 23.0 | 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 |
| -- [1] | 326 | °C | |
| -- [2] | 341 | °C | |

| NOTE | |
|---|---|
| 1. | Second |
| 2. | Initial |



## Recommended distributors for this material

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