Teflon® PTFE 640XT X

Polytetrafluoroethylene

DuPont Fluoropolymers

Message:

DuPont ™ Teflon ® PTFE 640XT X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon ® PTFE 640XT 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);
Teflon ®
PTFE
640XT
X
is
designed
for processing
over
a
wide extrusion

reduction ratio range (250:1 to 5000:1), with excellent performance even at the top of this range. Due to its outstanding transformation characteristics, Teflon ® PTFE 640XT X can be extruded with very low lubricant levels over a wide reduction ratio range, while the extrusion pressure remains low. For example, Teflon ® PTFE 640XT X can be extruded into wire with excellent performance in the reduction ratio range of 1000:1 to 4500:1 with a single lubricant level of 16% (based on total weight). This means that a single PTFE/lubricant mixture can be used for many constructions being manufactured in the same size extruder line. In

addition, the excellent high reduction ratio performance means that products made in small-bore machines with other lower reduction ratio rated fine powders can now be extruded in larger ones, which represent a considerable economic advantage, since more material can be extruded per extrusion. This also means that longer lengths of wire or tubing can be achieved in one extrusion.

Teflon ® PTFE 640XTX meets the requirements of ASTM D 4895-10, Type I, Grade 1, Class C.

Typical Applications

Teflon ® PTFE 640XTX is

mainly
used for
insulation
of
high-performance
wire
and
cables,
as
well
as
tubing.
It
is also
suitable for other typical applications such as additives where some properties
of
PTFE
are required.

General Information			
Features	Food Contact Acceptable Good Chemical Resistance Good Electrical Properties Good Flexibility Good Toughness Good Weather Resistance Low Friction Low Moisture Absorption Solvent Resistant		
Uses	Additive Insulation 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/cm³	ISO 12086, ASTM D4895
Apparent Density	0.50	g/cm³	ASTM D4895, ISO 12086
Average Particle Size			
--	450	µm	ISO 12086
--	450	µm	ASTM D4895
Thermal Instability Index			

--	< 15.0		ISO 12086
--	< 15.0		ASTM D4895
Extrusion Pressure			
at RR = 1600:1	22.0	MPa	ISO 12086
at RR = 1600:1	22.0	MPa	ASTM D4895
at RR = 2500:1	28.0	MPa	ASTM D4895
at RR = 2500:1	28.0	MPa	ISO 12086
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			ASTM D4591, ISO 12086
-- [1]	326	°C	
-- [2]	344	°C	

NOTE	
1.	Second
2.	Initial

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT