

Teflon® PTFE 62 X

Polytetrafluoroethylene

DuPont Fluoropolymers

Message:

DuPont™ Teflon® PTFE 62 X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon® PTFE 62 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 62 X is a premium resin that has increased thermal stability, superior flex life, superior stress crack resistance, low permeability and high clarity.

Teflon® PTFE 62 X is designed for processing at medium to high reduction ratios of 100:1 to 600:1. 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 molding and convoluting.

Teflon® PTFE 62 X meets the following requirements:

ASTM D4895-10, Type I, Grade 4, Class B

Typical Applications

Teflon® PTFE 62 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
	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

Hose
Tubing
Wire & Cable Applications

Agency Ratings	EU 10/2011 FDA 21 CFR 177.1550
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Forms	Powder
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Processing Method	Extrusion
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Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14	g/cm ³	ISO 12086, ASTM D4895
Apparent Density	0.50	g/cm ³	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	ASTM D4895
--	23.0	MPa	ISO 12086
Stretching Void Index			
--	< 50.0		ISO 12086
--	< 50.0		ASTM D4895
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			ASTM D4895, ISO 12086
-- ¹	322	°C	
-- ²	341	°C	

NOTE			
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1.	Second
2.	Initial

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