

Teflon® PTFE 6C X

Polytetrafluoroethylene

DuPont Fluoropolymers

Message:

DuPont™ Teflon® PTFE 6C X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon® PTFE 6C 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 6C X is designed for processing at medium to high reduction ratios (250:1 to 2000:1). It is particularly suitable for production of wire coating, wire jacketing and tubing at fast sintering rates.

Teflon® PTFE 6C X meets the requirements of ASTM D4895-10, Type I, Grade 2, Class C.

Typical Applications

Teflon® PTFE 6C X is mainly used for wire and cable insulation and tube with thin wall tubing such as spaghetti tubing.

General Information	
UL YellowCard	E54681-244687
Features	Food Contact Acceptable
	Good Chemical Resistance
	Good Electrical Properties
	Good Flexibility
	Good Stiffness
	Good Toughness
	Good Weather Resistance
	High Elongation
	Low Friction
	Low Moisture Absorption
	Solvent Resistant
Uses	Cable Jacketing
	Tubing
	Wire & Cable Applications
Agency Ratings	EU 10/2011
	FDA 21 CFR 177.1550
Forms	Powder

Processing Method	Extrusion Wire & Cable Extrusion		
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Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.16	g/cm ³	ISO 12086, ASTM D4895
Apparent Density	0.48	g/cm ³	ASTM D4895, ISO 12086
Average Particle Size			
--	480	μm	ISO 12086
--	480	μm	ASTM D4895
Thermal Instability Index			
--	< 50.0		ISO 12086
--	< 50.0		ASTM D4895
Extrusion Pressure - at RR = 1600:1			
--	52.0	MPa	ISO 12086
--	52.0	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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