

Teflon® PTFE 6CN X

Polytetrafluoroethylene

DuPont Fluoropolymers

Message:

DuPont™ Teflon® PTFE 6CN X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon® PTFE 6CN 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 6CN X is designed for processing at medium to high reduction ratios of 250:1 to 2000:1. It is particularly suitable for production of wire coating, wire jacketing and tubing at fast sintering rates. Teflon® PTFE 6CN X meets the requirements of ASTM D4895-10, Type I, Grade 2, Class C.

Typical Applications

Teflon® PTFE 6CN 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 Flexibility
	Good Stiffness
	Good Thermal Stability
	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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.18	g/cm ³	ISO 12086, ASTM D4895
Apparent Density	0.47	g/cm ³	ASTM D4895, ISO 12086
Average Particle Size			
--	400	μm	ISO 12086
--	400	μm	ASTM D4895
Thermal Instability Index			
--	< 50.0		ASTM D4895
--	< 50.0		ISO 12086
Extrusion Pressure - at RR = 1600:1			
--	50.0	MPa	ASTM D4895
--	50.0	MPa	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		

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