

# Teflon® PTFE 613A X

Polytetrafluoroethylene

DuPont Fluoropolymers

## Message:

DuPont™ Teflon® PTFE 613A X is a polytetrafluoroethylene fine powder resin used primarily for paste extrusion. Teflon® PTFE 613A X offers the excellent combination of properties typical of the Teflon® fluoroplastic resins:

- chemical inertness to nearly all industrial chemicals and solvents
- superior in-use thermal stability (low thermal instability index)
- 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 613A X is designed for processing at low to medium reduction ratios of 10:1 to 300:1. It is designed to facilitate the production of high-quality, low-density tape and beading. Teflon® PTFE 613A X meets the requirements of ASTM D 4895-10, Type I, Grade 1, Class B.

General Information			
Features	Good Chemical Resistance		
	Good Electrical Properties		
	Good Thermal Stability		
	Good Toughness		
	Good Weather Resistance		
	High Elongation		
	Low Friction		
	Low Temperature Resistant		
	Solvent Resistant		
Uses	Insulation		
	Wire & Cable Applications		
Forms	Powder		
Processing Method	Extrusion		
	Ram Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14	g/cm <sup>3</sup>	ASTM D4895, ISO 12086
Apparent Density	0.44	g/cm <sup>3</sup>	ASTM D4895, ISO 12086
Average Particle Size			
--	500	µm	ISO 12086

--	500	μm	ASTM D4895
Thermal Instability Index			
--	< 50.0		ASTM D4895
--	< 50.0		ISO 12086
Rheometer Pressure - Reduction Ratio 100:1			
--	27.6	MPa	ISO 12086
--	27.6	MPa	ASTM D4895
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			
-- <sup>1</sup>	327	°C	ISO 12086, ASTM D4895
-- <sup>2</sup>	342	°C	ASTM D4895, ISO 12086
NOTE			
1.	Second		
2.	Initial		

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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



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