

# 3M™ Dyneon™ PTFE TF 1702

Polytetrafluoroethylene

3M Advanced Materials Division

## Message:

Non-free-flowing suspension PTFE compression moulding powder developed especially for thin skived film applications.

### Special Features

- Meets ASTM D 4894 Type II classification
- Produced by suspension polymerisation
- Very fine particle size
- Low moulding pressure
- Dense polymer structure
- Lower deformation under load
- Increased gel stability
- Improved weldability
- Good electrical and mechanical properties
- Lower permeation rate compared to TF 1750
- Excellent chemical inertness
- Low friction behaviour
- Good flame retardance
- Exceptional temperature resistance

General Information			
Features	Low friction coefficient		
	Weldable		
	Good electrical performance		
	Flame retardancy		
Uses	Films		
	Washer		
	Sheet		
Forms	Powder		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	2.16	g/cm <sup>3</sup>	ISO 12086
Apparent Density	0.41	g/cm <sup>3</sup>	ISO 60
Molding Shrinkage	5.2	%	Internal method
Average Particle Size	27	µm	ISO 13320
Films	Nominal Value	Unit	Test Method
Tensile Strength (100 µm)	42.0	MPa	ISO 527-3
Tensile Elongation (Break, 100 µm)	590	%	ISO 527-3
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (0.100 mm)	90	kV/mm	ISO 12086

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