

3M™ Dyneon™ TFM™ Modified PTFE TFM 2001Z

Polytetrafluoroethylene
3M Advanced Materials Division

Message:

- 2nd-generation PTFE for high-performance tubing
- Features
 - Meets ASTM D 4895-04 Type I, Grade 1, Class B classification.
 - High molecular weight PTFE powder, produced by the emulsion polymerization method.
 - Dyneon™ TFM™ 2001 Z PTFE is recommended for high-performance applications with reduction ratios up to 1000:1
 - Denser polymer structure providing lower gas permeability
 - Isotropic mechanical properties
 - Smooth surfaces and high transparency
 - High stress cracking resistance
 - High pressure resistance under surge stress
 - Lower flexural modulus
 - Very good weldability
 - Processing by standard paste extrusion method

General Information			
Features	High Clarity		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Weldable		
Uses	Tubing		
Forms	Powder		
Processing Method	Ram Extrusion		
	Sintering		
Physical	Nominal Value	Unit	Test Method
Density			ISO 12086
-- ¹	2.14	g/cm ³	
-- ²	2.15	g/cm ³	
Apparent Density	0.45	g/cm ³	ISO 60
Average Particle Size	520	µm	ISO 13320
Extrusion Pressure - Reduction Ratio 400	26.0	MPa	ASTM D4895
Reduction Ratio	20-1000:1		Internal Method
Films	Nominal Value	Unit	Test Method
Tensile Strength			ISO 527-3
-- ³	38.0	MPa	
MD ⁴	31.0	MPa	
TD ⁵	30.0	MPa	

Tensile Elongation ⁶ (Break)	440	%	ISO 527-3
NOTE			
1.	Mechanical properties of a tube with the dimension 12 x 10 mm		
2.	Measured on sintered moldings		
3.	Measured on sintered moldings		
4.	Mechanical properties of a tube with the dimension 12 x 10 mm		
5.	Mechanical properties of a tube with the dimension 12 x 10 mm		
6.	Measured on sintered moldings		

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