

# 3M™ Dyneon™ PTFE TF 1750

Polytetrafluoroethylene

3M Advanced Materials Division

## Message:

Non free-flowing PTFE for compression moulding

Features

Meets ASTM D 4894 Type II classification

Moulding powder with very small particle size

Low moulding pressure

Good electrical and mechanical properties

Typical applications

Shaped parts

Moulded cylinders

Skived film of >20 µm

Compounds

General Information			
Features	Good Electrical Properties		
Uses	Compounding Film		
Forms	Powder		
Processing Method	Compression Molding Sintering		
Physical	Nominal Value	Unit	Test Method
Density	2.16	g/cm <sup>3</sup>	ISO 12086
Apparent Density	0.38	g/cm <sup>3</sup>	ISO 60
Molding Shrinkage	4.3	%	Internal Method
Average Particle Size	25	µm	ISO 13320
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	56		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	600	MPa	ISO 527-2
Deformation Under Load			ASTM D621
15 MPa <sup>1</sup>	10.0	%	
15 MPa <sup>2</sup>	17.0	%	
15 MPa <sup>3</sup>	16.0	%	
Films	Nominal Value	Unit	Test Method
Tensile Strength (100 µm)	42.0	MPa	ISO 527-3
Tensile Elongation (Break, 100 µm)	430	%	ISO 527-3
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow			DIN 53752

30 to 100°C	1.2E-4	cm/cm/°C	
30 to 200°C	1.4E-4	cm/cm/°C	
30 to 260°C	1.7E-4	cm/cm/°C	
Thermal Conductivity	0.22	W/m/K	DIN 52612
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+17	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms·cm	IEC 60093
Electric Strength (0.100 mm)	88	kV/mm	ISO 12086
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	V-0		UL 94
<b>NOTE</b>			
1.	permanent		
2.	100 hr		
3.	24 hr		

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