

# 3M™ Dyneon™ TFM™ Modified PTFE

## Compound TFM 4213

Polytetrafluoroethylene

3M Advanced Materials Division

**Message:**

3M™ Dyneon™ TFM™ Modified PTFE Compound 4213 is a Polytetrafluoroethylene (PTFE) product filled with 15% carbon fiber. It can be processed by compression molding or sintering and is available in Europe or North America.

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Good Flow		
Processing Method	Compression Molding Sintering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14	g/cm <sup>3</sup>	ASTM D4745-06
Apparent Density	0.75	g/cm <sup>3</sup>	ASTM D4894
Molding Shrinkage - Flow	3.3	%	ASTM D4894-07
Hardness	Nominal Value	Unit	Test Method
Shore Hardness <sup>1</sup> (Shore D)	69		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Break)	19.5	MPa	ASTM D4745-06
Tensile Elongation <sup>3</sup> (Break)	380	%	ASTM D4745-06
Additional Information	Nominal Value	Unit	
Compression Molding Molding Pressure	70.0	MPa	
Compression Molding Temperature	23 to 26	°C	
Sintering Temperature	< 365	°C	
NOTE			
1.	Measured on sintered moldings		
2.	Measured on sintered moldings		
3.	Measured on sintered moldings		

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