

3M™ Dyneon™ PTFE Compound TF 4105

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

- Features
- PTFE Compound with 25 % glass fibre
- Free flow compound
- Typical applications:
- Valve seats
- Piston rings
- Bearings
- Radial Seals
- Molded parts

General Information	
Filler / Reinforcement	Glass Fiber,25% Filler by Weight
Features	Good Flow
Uses	Bearings
	Seals
	Valves/Valve Parts

Processing Method	Compression Molding
	Sintering

Physical	Nominal Value	Unit	Test Method
Density	2.24	g/cm ³	ISO 12086
Apparent Density	0.82	g/cm ³	ISO 12086
Average Particle Size	580	µm	ISO 12086
Compression Molding Molding Pressure	70.0	MPa	
Compression Molding Temperature	23 to 26	°C	
Sintering Temperature	370 to 375	°C	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Break)	16.0	MPa	ISO 12086
Tensile Strain ² (Break)	360	%	ISO 12086
Deformation Under Load ³ (23°C, 15 MPa)	8.40	%	ASTM D621

NOTE	
1.	Measured on sintered moldings
2.	Measured on sintered moldings
3.	100 h load, 25 h relaxation

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