

3M™ Dyneon™ PTFE Compound TF 3215S

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

3M™ Dyneon™ PTFE Compound TF 3215S is a non-free-flowing suspension PTFE compound containing 25% electro-graphitized carbon for compression moulding.

Special Features

Increased thermal dimensional stability

Increased surface hardness

Improved deformation under load

Reduced friction & wear

Low moulding pressure

High limiting oxygen index (LOI)

Low friction behaviour

Improved mechanical properties

Exceptional temperature resistance

Good chemical stability

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 25% filler by weight		
Features	Low friction coefficient		
Uses	Seals		
	Application in Automobile Field		
Forms	Powder		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.05	g/cm ³	ASTM D4745-06
Apparent Density	0.44	g/cm ³	ASTM D4894-07
Molding Shrinkage - Flow	2.0	%	ASTM D4894-07
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	19.5	MPa	ASTM D4745-06
Tensile Elongation (Break)	270	%	ASTM D4745-06
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.3E+2	ohms	IEC 60093

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