

3M™ Dyneon™ PTFE Compound FC 16863

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

3M™ Dyneon™ PTFE Compound FC 16863 is a non-free-flowing suspension PTFE compound containing a 62.5% bronze/graphite filler combination for compression moulding.

Special Features

Increased thermal dimensional stability

Increased surface hardness

Improved deformation under load

Reduced friction and 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	Bronze\Graphite, 63% 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	3.30	g/cm ³	ASTM D4745-06
Apparent Density	0.76	g/cm ³	ASTM D4894-07
Molding Shrinkage - Flow	0.90	%	ASTM D4894-07
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	14.4	MPa	ASTM D4745-06
Tensile Elongation (Break)	14	%	ASTM D4745-06

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