

3M™ Dyneon™ PTFE Compound PDR 09001

Polytetrafluoroethylene
3M Advanced Materials Division

Message:

3M™ Dyneon™ PTFE Compound PDR 09001 is a free-flowing suspension PTFE compound containing 30% stainless steel and 10 % carbon fibre for compression and automatic moulding.

Special Features

- Increased thermal dimensional stability
- Increased surface hardness
- Improved deformation under load
- Reduced friction & wear
- Good chemical stability
- High limiting oxygen index (LOI)
- Low friction behaviour
- Very good mechanical properties
- Exceptional temperature resistance

General Information			
Filler / Reinforcement	Stainless steel fiber, 30% filler by weight		
	Carbon fiber reinforced material, 10% 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	2.50	g/cm ³	ASTM D4745-06
Apparent Density	0.92	g/cm ³	ASTM D4894-07
Molding Shrinkage - Flow	1.4	%	ASTM D4894-07
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	13.0	MPa	ASTM D4745-06
Tensile Elongation (Break)	290	%	ASTM D4745-06

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