

3M™ Dyneon™ PTFE Compound TF R4215

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

3M™ Dyneon™ PTFE Compound TF R4215 is a free-flowing suspension PTFE compound containing 25% electro graphitized carbon for ram extrusion.

Special Features

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

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	Plunger press-out		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.10	g/cm ³	ASTM D4745-06
Apparent Density	0.70	g/cm ³	ASTM D4894-07
Molding Shrinkage - Flow	2.0	%	ASTM D4894-07
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	16.4	MPa	ASTM D4745-06
Tensile Elongation (Break)	200	%	ASTM D4745-06

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