

# 3M™ Dyneon™ PTFE Compound NST 1111R

Polytetrafluoroethylene

3M Advanced Materials Division

## Message:

3M™ Dyneon™ Compound NST 1111R is a free-flowing suspension PTFE compound containing 5% graphite and 10% of an appropriate filler for ram extrusion, compression and automatic moulding.

### 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	Graphite fiber reinforced material, 5.0% filler by weight Filler, 10% filler by weight
Features	Low friction coefficient
Uses	Seals Application in Automobile Field
Forms	Powder
Processing Method	Compression molding Plunger press-out

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.17	g/cm <sup>3</sup>	ASTM D4745-06
Apparent Density	0.76	g/cm <sup>3</sup>	ASTM D4894-07
Molding Shrinkage - Flow	2.8	%	ASTM D4894-07
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	19.5	MPa	ASTM D4745-06
Tensile Elongation (Break)	370	%	ASTM D4745-06

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