

3M™ Dyneon™ PTFE Compound TF R4303

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

3M™ Dyneon™ PTFE Compound TF R4303 is a free-flowing suspension PTFE compound containing 15% graphite for ram extrusion.

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 | Graphite fiber reinforced material, 15% 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 | 2.16 | g/cm ³ | ASTM D4745-06 |
| Apparent Density | 0.77 | g/cm ³ | ASTM D4894-07 |
| Molding Shrinkage - Flow | 2.4 | % | ASTM D4894-07 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 62 | | DIN 53505 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 22.8 | MPa | ASTM D4745-06 |
| Tensile Elongation (Break) | 300 | % | ASTM D4745-06 |

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