

3M™ Dyneon™ PTFE TF 2053Z

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

3M™ Dyneon™ PTFE Fine Powder TF 2053Z is recommended for the manufacture of tubing and wire and cable insulations.

Special Features

- Meets ASTM D 4895 Type I, Grade 1, Class C classification
- High molecular weight PTFE powder, produced by emulsion polymersation
- Wide processing window because of large reduction ratio range
- Relatively high extrusion pressure results in high green strength of extrudate
- Processing by standard paste extrusion methods
- Low friction behaviour
- High flame retardance
- Exceptional temperature resistance
- Very good electrical properties
- Excellent chemical inertness

General Information			
Features	Good Green Strength		
	Low friction coefficient		
	High molecular weight		
	Good electrical performance		
	Flame retardancy		
Uses	Wire and cable applications		
	Pipe fittings		
	Insulating material		
	Additive		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	2.16	g/cm ³	ISO 12086
Apparent Density	0.49	g/cm ³	ISO 60
Average Particle Size	450	µm	ISO 13320
Extrusion Pressure - Reduction Ratio 1600	65.0	MPa	ASTM D4895
Reduction Ratio	20.0:1.0 to 1600.0:1.0		Internal method
Films	Nominal Value	Unit	Test Method
Tensile Strength	32.0	MPa	ISO 527-3
Tensile Elongation (Break)	390	%	ISO 527-3

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