3M™ Dyneon™ TFM™ Modified PTFE TFM 2070Z

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

2nd-generation PTFE for high-performance tubing
Features
Meets ASTM D 4895-04 Type I, Grade 1, Class B classification.
High molecular weight PTFE powder, produced by the emulsion polymerization method.
Dyneon™TFM™ 2070 Z PTFE is recommended for high-performance applications with higher reduction ratios up to 2000:1 (compared with Dyneon™TFM™ 2001 Z)
Denser polymer structure providing lower gas permeability
Isotropic mechanical properties
Smooth surfaces and high transparency
High stress cracking resistance
High pressure resistance under surge stress
Lower flexural modulus
Very good weldability
Processing by standard paste extrusion method

General Information	
Features	High Clarity
	High ESCR (Stress Crack Resist.)
	High Molecular Weight
	Weldable
Uses	Tubing
Forms	Powder
Processing Method	Ram Extrusion
	Sintering

Physical	Nominal Value	Unit	Test Method
Density	2.16	g/cm³	ISO 12086
Apparent Density	0.46	g/cm³	ISO 60
Average Particle Size	350	µm	ISO 13320
Extrusion Pressure - Reduction Ratio 400	19.0	MPa	ASTM D4895
Reduction Ratio	20-2000:1		Internal Method
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]	36.0	MPa	ISO 527-3
Tensile Elongation [2] (Break)	400	%	ISO 527-3

NOTE	
1.	Measured on sintered moldings
2.	Measured on sintered moldings

Recommended distributors for this material

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