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	Linit	Test Method

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
Films Tensile Strength ¹	Nominal Value 36.0	Unit MPa	Test Method ISO 527-3
Tensile Strength ¹	36.0	MPa	ISO 527-3
Tensile Strength ¹ Tensile Elongation ² (Break)	36.0	MPa	ISO 527-3

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