3M™ Dyneon™ TFM™ Modified PTFE TFMR 1602

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

Modified suspension PTFE especially designed for ram extrusion of thick walled pipes and rods.
Special Features
Meets ASTM D4894 - Type VI classification
Produced by suspension polymerisation
Tailor made for ram extrusion
Excellent free-flowing and feeding properties
Good mouldability
Reduced deformation under load (cold flow)
Higher transparency
Smoother surfaces on machined parts
Less porosity and reduced permeability
Better compression stress relaxation
Improved weldability
Chemical inertness
Low friction behaviour
Good flame retardance
Exceptional temperature resistance

General Information	
Features	Low friction coefficient
	Weldable
	Good formability
	Good liquidity
	Definition, high
	Flame retardancy
Uses	Bar
	Valve/valve components
	Piping system
	Pipe fittings
	Seals
	Profile
Appearance	Clear/transparent
Forms	Powder
	Particles
	Cohesion
Processing Method	Plunger press-out

Physical	Nominal Value	Unit	Test Method
Density	2.16	g/cm³	ISO 12086
Apparent Density	0.80	g/cm³	ISO 60
Molding Shrinkage	11	%	Internal method
Average Particle Size	800	µm	ISO 13320
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	53		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Deformation Under Load			ASTM D621
23°C, 15 MPa [1]	14.0	%	ASTM D621
23°C, 15 MPa [2]	6.00	%	ASTM D621
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (500 µm)	35.0	MPa	ISO 12086
Tensile Elongation (Break, 500 µm)	500	%	ISO 12086
Thermal	**Nominal Value**	**Unit**	**Test Method**
Thermal Conductivity	0.22	W/m/K	DIN 52612
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+17	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms·cm	IEC 60093
NOTE			
1.	100 h		
2.	remaining		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT