3M™ Dyneon™ TFM™ Modified PTFE TFR 1502 A

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

Modified PTFE for ram extrusion
Features
Tailor made for ram extrusion
Excellent free-flowing characteristics with easy feeding
Reduced deformation under load (cold flow)
Good mouldability
Low porosity and reduced permeability
Excellent product smoothness
Improved weldability
Typical Applications
Ram extrusion of rods and profiles with wall thickness preferably greater than 12mm
Ram extrusion of tubes with wall thickness preferably greater than 4 mm
Semi-finished articles

General Information			
Features	Good Flow Good Moldability Weldable		
Uses	Profiles Rods Tubing		
Processing Method	Ram Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	2.16	g/cm³	ISO 12086
Apparent Density	0.80	g/cm³	ISO 60
Molding Shrinkage [1] (23.0 mm)	11	%	Internal Method
Average Particle Size	800	µm	ISO 13320
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	53		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Deformation Under Load			ASTM D621
23°C, 15 MPa [2]	6.00	%	
23°C, 15 MPa [3]	14.0	%	
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (500 µm)	35.0	MPa	ISO 527-3
Tensile Elongation (Break, 500 µm)	500	%	ISO 527-3

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.	ram extruded rod		
2.	remaining		
3.	100 h		

Recommended distributors for this material

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