

# MATERIAL DATA SHEET



## Grade FP60BZ

### Product Description

This product is non free flow compound containing Bronze Filler (60 % by weight) blended in PTFE Resin

### Physical Properties

Property	Test Method	Units	Typical Values
Bulk Density	ASTM D 4745	g/cc	900
Specific Gravity	ASTM D 4745	Mpa	3.80-4.00
Hardness	ASTM D 2240	Shore D	67-71
Tensile Strength	ASTM D 4745	Psi	1800
Elongation	ASTM D 4745	%	100
Diametrical Shrinkage	INTERNAL	%	
Recommended Moulding Pressure			450-500
Max. Sintering Temperature			370-375 ° C

### Product Advantages:

Bronze filled PTFE Contains a copper/tin alloy providing a better creep resistance than most of the PTFE alloys. It exhibits improved thermal conductivity with high load bearing capacity and hence is most often used in Hydraulic Systems. Bronze enhances dimensional stability due to improved hardness, compressive strength and resistance to creep. It can not be used in contact with Oxidizing Agents. It is oxidized and discoloured during sintering with no impact on the quality.

### Typical Applications:

- Bearing,
- Support slides of heavy loads subject to several shocks
- Compressor Piston Rings
- Valve Seats and plugs
- Creep Resistant Seals in High Pressure Hydraulic Systems

### Delivery Process:

The material is sealed in two-layer plastic bag inside a rigid 40 kg drum. It is highly recommended to condition resin at 18°C for 10 hrs prior to processing to achieve optimal properties

Note: Technical Information, test data and advice provided by Fluoropolymer Blends are based on information and tests we believe to be reliable and are intended for persons with knowledge and technical skills enough to analyse test types and apply adequate safety factors for the given application. Because actual application conditions vary widely, these values are intended for comparative purposes only and the suitability of this material is ultimately left to the end user.

### FluoropolymerBlends

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