

TYLON® P443

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. TYLON P443 is a bronze filled PTFE with an added lubricant, improving wear life and reducing any abrasive effects on the mating surface. Bronze filled PTFE is both thermally and electrically conductive. The bronze enhances dimensional stability due to improved hardness, compressive strength and resistance to creep. Bronze filled PTFE is not to be used in contact with oxidizing agents.

APPLICATIONS:

The major uses for bronze filled PTFE are: bearings, rod seals, piston rings (hydraulics), valve seats and plugs. It is also used for support slides of heavy loads subject to several shocks.

PRODUCT INFORMATION:

CODE: P443
COLOR: BRONZE

MECHANICAL PROPERTIES:

Property	Specified	Units	Test Method
Density	2.95-3.20	-	ASTM D792
Tensile Strength	18-29	MPa	ASTM D1708
Elongation	180-320	%	ASTM D1708
Hardness	63-68	Shore D	ASTM D2240
Melting Point	327	°C	ASTM D3418
Continuous Service in Air (max)	260	°C	ASTM D638
Continuous Service in Air (min)	-260	°C	ASTM D790

This information corresponds to our current information on the subject. It is offered solely to provide suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. Since we cannot anticipate all variations in actual end-use conditions, Power Seal makes no warranties and assumes no liability in connection with any use of this information.