

Material Date Sheet BU980-40

PTFE-BR40

40% Bronze powder filled PTFE contains a 40% copper providing a better creep resistance than most of the PTFE tubes. It exhibits improved thermal conductivity, with high load bearing capacity and hence is most often used in hydraulic systems. 40% bronze filled PTFE tube is both thermally and electrically conductive. Those bronze in PTFE 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 applications for 40% bronze Filled PTFE are: bearings, piston rings (hydraulics), valve seats and plugs. It is also used for support slides of heavy loads subject to several shocks.

PRODUCT INFORMATION:

CODE: BU980-40
COLOUR: BRONZE/BROWN

MECHANICAL PROPERTIES:

Property	Specified	Units	Test Method
Specific Gravity	2.90-3.10	-	ASTM D792
Yield Strength	8-15	MPa	ASTM D1708
Tensile Strength	18-29	MPa	ASTM D1708
Elongation	200-320	%	ASTM D1708
Hardness	63-65	Shore D	ASTM D2240
Tensile Modulus	590	MPa	ASTM D638
Flexural Modulus	745	MPa	ASTM D790
Deformation @ 14.2 MPa, 1hr	7-8	%	ASTM D621
Deformation @ 14.2 MPa, 24hrs	10-11	%	ASTM D621
Permanent Deformation	5-6	%	ASTM D621
Deformation @ 6.9 MPa, 1hr	2-3	%	ASTM D621
Deformation @ 6.9 MPa, 24hrs	2-3	%	ASTM D621
Permanent Deformation	1-2	%	ASTM D621
Izod Impact Strength	150	J/m	ASTM D256
Static Coefficient of Friction	0.22	-	ASTM D1894
Dynamic Coefficient of Friction	0.11	-	ASTM D1894
Wear Factor K	20 - 60 x 10 ⁻⁶	mm ³ /Nm	Pin on Disc
Coefficient of Linear Thermal Expansion (25°C-100°C)	8.5-10 x 10 ⁻⁵	mm/mm/°C	ASTM D696
Melting Point	327	°C	ASTM D3418
Continuous Service in Air (max)	260	°C	Without Load
Continuous Service in Air (min)	-260	°C	Without Load

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