



# PTFE LANTERN RINGS

MFP Seals produces a variety of machined Virgin and Filled PTFE Lantern Rings. Designed for use in applications such as Centrifugal, Turbine, Boiler, Feed, and Condensate Return Pumps; Wastewater, Slurry, Sludge, Pulp, Paper Stock, as well as, Positive Displacement Pumps, Agitators, Mixers, and more.

PTFE Lantern Rings are a low friction product, inert to most liquids & corrosives, and is also non-contaminating, making it the ideal material in applications where metals and alloys would corrode quickly. The PTFE Lantern Rings will not score pump shafts or sleeves.

The Lantern Ring ensure the packing is kept cool, lubricated, and flushed of abrasives and chemicals. The use of a Lantern Ring has proven to increase the longevity of compression packings, reducing maintenance and downtime of equipment. To ensure easy installation, they can be made as solid, split or half rings, in Inch or Metric sizes.

Capable of withstanding extreme temps, from -328°F up to +500°F, PTFE can handle harsh environments and is often used in high temperature applications.

To ensure fast and efficient service, MFP Seals stocks a wide range of molded and extruded tube stock. Give MFP Seals a call today, we can quickly and precisely machine Lantern Rings for your application.

T1000 (Virgin PTFE)			
Properties	Unit	Method	Typical Value
<b>PHYSICAL - MECHANICAL</b>			
Density	g/cm <sup>3</sup>	ASTM D792	2.14 - 2.18
Hardness - Shore D	points	ASTM D2240	51 - 60
Tensile strength - CD	MPa	ISO 527	≥ 20
Elongation at break - CD	%	ISO 527	>200
Compressive strength at 1% deformation - CD	psi	ASTM D695	580 - 725
Deformation under load at room temperature after 24 hours at 13.7 N/mm <sup>2</sup> - CD	%	ASTM D621	14 - 17
Permanent deformation as above after 24 hours of rest at room temperature - CD	%	ASTM D621	7 - 8
Deformation under load at 260°C, after 24 hours at 41 N/mm <sup>2</sup> - CD	%	ASTM D621	
Permanent deformation as above after 24 hours of rest at room temperature - CD	%	ASTM D621	7 - 8
Impact strength Izod	J/m	ASTM D256	153
Service Temperature ( min - max )	°C	/	-200 / +260
Service Temperature ( min - max )	°F	/	-328 / +500

CD = Cross Direction; The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice. Deviations from the values indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.

T1075 (25% Glass Filled PTFE)			
Properties	Unit	Method	Typical Value
<b>PHYSICAL - MECHANICAL</b>			
Density	g/cm <sup>3</sup>	ASTM D792	2.22 - 2.24
Hardness Shore D	Points	ASTM D2240	62 - 67
Tensile Strength	N/mm <sup>2</sup>	ASTM D4745	≥13
Elongation at Break	%	ASTM D4745	≥180
Service Temperature ( min - max )	°C	/	-200 / +260
Service Temperature ( min - max )	°F	/	-328 / +500

Other materials are available.

**MFPSEALS**<sup>®</sup>  
MARTIN FLUID POWER

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