

# The O-Ring Store LLC



We make getting o-rings easy!

## **PTFE 55 DUROMETER SHORE D DATA SHEET FOR COMPOUND TEF**

### **Compound Features:**

- Chemically Inert.
- Impervious to virtually all fluids and gasses.
- Lowest coefficient of friction for sealing materials.
- Low moisture absorption.
- Handles extreme high and low temperatures.
- Good wear resistance.

### **Compound Limitations:**

- Non-elastic material.\*
- Hard to install in certain components.
- Continuous loads cause deformation (also known as creep or cold flow).

\*For elastic alternatives see teflon encapsulated O-Rings or FFKM O-Rings.

### **Temperature Range:**

-100°F to +500°F (-73.3°C to +260°C)

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ORIGINAL PROPERTIES				
Properties	ASTM Designation	Test Method	Unit of Measure	TEF Compound Property
Durometer	-	-	Shore D	54-60
Tensile Strength			MPa	>20.0
Elongation at Break			%	>200%
Specific Gravity			g/cm <sup>3</sup>	1.24

MECHANICAL PROPERTIES				
Properties	ASTM Designation	Test Method	Unit of Measure	TEF Compound Property
Deformation Under Load	-	140kg/cm <sup>2</sup> 24hrs @ 23°C	%	5.0 to 5.5
Permanent Deformation		24hrs @ °C	%	12.0 to 13.0
Coefficient of Linear Thermal Expansion		T=25-100°C	10 <sup>-5</sup> /0°C	12.0 to 13.0
Volume Resistivity		-	ohm*cm	10 <sup>18</sup>
Dielectric Strength @ 0.5mm Thickness		-	kV/mm	>40
Dynamic Coefficient of Friction		-	-	0.06

Information within is believed to be accurate and reliable. However, The O-Ring Store, LLC makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate the material prior to use.

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