

HY54

The properties of HY54 provide a very versatile material grade that has been successfully applied in a multitude of applications, with gas conditions from wet through to dry, in both lubricated and non-lubricated service. This material has shown itself to be a broad range problem solving material where standard carbon filled PTFE materials do not give desired lifetime. Successful experience in compressor applications covers air, methane, ethylene, propylene, helium, hydrogen, and nitrogen and other mixed gas process streams.

Physical Properties

Property	Method	Value
COTE - Radial x 10 ⁻⁶ /C (20-200 °C)	ASTM D696	79.9
COTE - Axial x 10 ⁻⁶ /C (20-200 °C)	ASTM D696	141.0
Maximum operating temperature (°C)	-	200
Density (g/cm ³)	ASTM D792-00	2.11
Shore D Hardness	ASTM D2240-04	62.5
Tensile strength at break (MPa)	ASTM D638-03	19
Elongation at break (%)	ASTM D638-03	80

Operating range

Max. Gas Temperature (°C)		Max. Pressure (bar)			
Discharge	Design	Packing Discharge		Cylinder Ring Diff.	
		Non-Lube	Lube	Non-Lube	Lube
200	150	100	175	50	100

Air

Industrial Gases

Natural Gas

Refinery

Olefins

Alcohols

Chemicals

Refrigeration