

HY79

HY79 is premium material formulated specifically for demanding air compression applications in lubricated or non-lubricated service, exhibiting higher stiffness and less tendency for extrusion than traditional filled PTFE based materials.

Physical Properties

Property	Method	Value
COTE - Radial x 10-6/C (20-200 °C)	ASTM D696	49
COTE - Axial x 10-6/C (20-200 °C)	ASTM D696	65.5
Maximum operating temperature (°C)	-	200
Density (g/cm ³)	ASTM D792	3.91
Shore D Hardness	ASTM D2240	64
Tensile strength at break (MPa)	ASTM D638	14
Elongation at break (%)	ASTM D638	7

Operating range

Max. Gas Temperature (°C)		Max. Pressure (bar)			
Discharge	Design	Packing Discharge		Cylinder Ring Diff.	
		Non-Lube	Lube	Non-Lube	Lube
200	165	100	-	50	-

Operating restriction for oxygen-service: Compression ratio up to 3 and max. temperature 225°C

Air

Industrial Gases

Natural Gas

Refinery

Olefins

Alcohols

Chemicals

Refrigeration