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
Density (g/cm3)	ASTM D792	3.91
Shore D Hardness	ASTM D2240	64
Tensile strength at break (MPa)	ASTM D638	14
Elongation at break (%)	ASTM D638	7

Air





Alcohols

Refrigeration

Operating range

	emperature C)	Max. Pressure (bar)				
5			Discharge	Cylinder Ring Diff.		
Discharge	Discharge Design	Non-Lube	Lube	Non-Lube	Lube	
200	165	100	-	50	-	

Operating restriction for oxygen-service: Compression ratio up to 3



All values are approximate and subject to change without notification

The maximum material design temperature is calculated by considering suction and discharge conditions, machine speed, cooling and loading. Typically: Tdesign = Tsuction + 2/3(Tdischarge – Tsuction). Additional operating conditions need to be considered when making material selections. The data presented are guidelines only; consult HOERBIGER to ensure the correct material is specified.

