

Abbreviations.

ACM - polyacrylate rubber
ACN - acrylonitrile; component in nitrile rubber
AISI - American Iron and Steel Institute
ASTM - American Society for Testing and Materials
ASME - American Society of Mechanical Engineers
ASME BPE - ASME BioProcessing Equipment Standards
DIA - diameter
DRO - dynamic run-out
EPDM - ethylene propylene diene M-class rubber
FDA - Food and Drug Administration
FEPM - tetrafluoroethylene-propylene rubber
FKM - fluoroelastomer aka Viton®
FPM - feet per minute; used as a measure of surface speed at the contact point between a seal and the shaft
HNBR - hydrogenated nitrile rubber
HSN - highly saturated nitrile; alternative name for HNBR
ID - inside diameter
IN - inch
IRHD - International Rubber Hardness degrees
IRM - Industry Reference Material, as in IRM 903 oil
ISPE - International Society of Pharmaceutical Engineers
ISO - International Organization for Standardization
KN/M - kilonewtons per meter; SI equivalent of pli; sometimes a unit of measure in ASTM D 2000 line call-outs
LOP - lip opening pressure
MAX - maximum
MDR - moving die rheometer
MIN - minimum
MPA - megapascal; SI equivalent of psi; sometimes a unit of measure in ASTM D 2000 line call-outs
NBR - nitrile butadiene rubber (Buna N); copolymer of acrylonitrile and butadiene
NBS - National Bureau of Standards
NSF - National Sanitation Foundation
OD - outside diameter
ODR - oscillating disk rheometer
OOR - out-of-roundness
OSHA - Occupational Safety and Health Administration
PLI - pounds per linear inch
PSI - pounds per square inch
PTFE - polytetrafluoroethylene; a fluoroplastic
RA - roughness arithmetic average in surface measurements
RMA - Rubber Manufacturers Association
RPA - rubber process analyzer
RPM - revolutions per minute; also the average peak to mean height in surface measurements
RWD - radial wall dimension
RWV - radial wall variation
RZ - average peak to valley height in surface measurements
SAE - Society of Automotive Engineers
SG - specific gravity
SI - denotes The International System of Units (the modern metric system); taken from the French, "Le Système International d'Unités"
SPEC - specification
STBM - shaft-to-bore misalignment; phenomenon in which the shaft and the bore do not share a common center
TIR - Total Indicator Reading
UV - ultraviolet light
VMQ - vinyl methyl silicone rubber

"This list includes the abbreviations encountered most often in the sealing industry. Familiarity with them will save time as seals are selected or designed."