



Materials

Material Name	Material Group	Designation	Temperature		Hardness	Colour	Rod	Piston	Wiper	Bearing
			°C	°F						
Nitrile - medium	Synthetic rubber	NBR	-30 +120	-22 +250	93 IRHD	Black	H			
Nitrile - medium	Synthetic rubber	NBR	-30 +120	-22 +250	90 IRHD	Black			H	
Nitrile - high	Synthetic rubber	NBR	-10 +140	-14 +284	80 IRHD	Black	P	P	P	
Nitrile - low	Synthetic rubber	NBR	-45 +100	-45 +212	80 IRHD	Black			H	
Nitrile - medium	Synthetic rubber	NBR	-30 +120	-22 +250	78 IRHD	Black		H		M(1)
Nitrile - medium	Synthetic rubber	NBR	-30 +120	-22 +250	75 IRHD	Black	H	H		
Nitrile - medium	Synthetic rubber	NBR	-30 +120	-22 +250	73 IRHD	Black	H	H		
Nitrile - medium	Synthetic rubber	NBR	-30 +120	-22 +250	70 IRHD	Black	H	H		
Nitrile - low	Synthetic rubber	NBR	-45 +100	-45 +212	70 IRHD	Black	H	H		
Nitrile - medium 407	Synthetic rubber	NBR	-30 +120	-22 +250	70 IRHD	Black		H		
Nitrile - low 407 LT	Synthetic rubber	NBR	-56 +100	-70 +212	70 IRHD	Black		H		
Nitrile - medium	Synthetic rubber	NBR	-30 +120	-22 +250	65 IRHD	Black		H		
Hallprene - rubber/fabric	Composite	Cotton/NBR	-30 +120	-22 +250		Black	H	H		
Fluoroelastomer rubber/fabric	Composite	Cotton/FKM	-20 +150	-4 +302		Black	H	H		
Fluoroelastomer	Synthetic rubber	FKM	-20 +200	-4 +392	75 IRHD	Black	HP	HP	HP	
Hythane 181	TPE	EU	-45 +110	-50 +230	93 IRHD	Blue	HP	HP	HP	M
Hythane 282	TPE		-30 +125	-22 +255	93 IRHD	Purple	H	H	H	
Polyurethane	TPE	AU	-40 +100	-40 +212	94 IRHD	Dark blue			H	
Polyurethane	TPE	AU	-30 +100	-22 +212	93 IRHD	Dark blue		H	H	
Standard polyester elastomer	TPE		-40 +120	-40 +250	55 D	Red		H	H	
Hydrolysis stabilised polyester elastomer	TPE		-40 +120	-40 +250	55 D	Grey	H	H		M
Hydrolysis stabilised polyester elastomer	TPE		-40 +140	-40 +284	72 D	Red		H		M
Lubricated stabilised polyester elastomer	TPE		-40 +120	-40 +250	55 D	Dark brown		HP		
Acetal	Eng. plastic	POM	-45 +120	-50 +250	R 115	Orange	H	H		HP M
PTFE glass filled	Eng. plastic	PTFE	-50 +200	-58 +392	60 D	White	HP	HP		
PTFE Glass / MoS2 filled	Eng. plastic	PTFE	-50 +200	-58 +392	62 D	Grey	H	H		H
PTFE Bronze filled	Eng. plastic	PTFE	-50 +200	-58 +392	72 D	Bronze	HP	HP		HP
Hallite 506 polyester / polyester	Composite		-40 +120	-40 +250		Red				HP M
Nylon 12	Eng. plastic	PA	-40 +120	-40 +250	72 D	Brown		H		
Nylon 6 / MoS2	Eng. plastic	PA	-40 +120	-40 +250	R 115	Black	H	H		
Glass filled Nylon	Eng. plastic	PA	-40 +120	-40 +250	R 124	Black	H	H		H

H - Hydraulic P - Pneumatic
M - Suitable for water based fluids
(1) Static applications only