

Rubber Selection Data Chart

	NATURAL RUBBER	SBR	EPDM	NEOPRENE CR	HYPALON* CSM	NITRILE NBR	ACRYLIC ACM	VAMAC*	SANTOPRENE†	SILICONE Si	THERBAN•HNBR	VITON* FPM	FLUORO-SILICONE FSI
COST FACTOR	1	1	1	2	3	2	4	4	4	6	8	15	40
HARDNESS RANGE	30-95°	40-95°	30-85°	30-90°	40-85°	40-100°	50-85°	45-90°	50-100°	40-80°	50-95°	50-95°	40-80°
COLOURS	Full Range	Full Range	Limited Range	Full Range	Limited Range	Limited Range	Black	Limited Range	Full Range	Limited Range	Limited Range	Limited Range	Limited Range
HEAT RESISTANCE (°C) Maximum Continuous Maximum Intermittent	75°C 105°C	85°C 115°C	130°C 150°C	95°C 125°C	130°C 160°C	100°C 130°C	150°C 180°C	150°C 180°C	110°C 115°C	205°C 300°C	125°C 160°C	205°C 300°C	180°C 200°C
LOW TEMPERATURE RESISTANCE	-60°C	-55°C	-50°C	-40°C	-25°C	-20°C	-20°C	-40°C	-40°C	-60°C (special grades -80°C)	-30°C	-20°C	-60°C
RESISTANCE TO Oxidation Ozone & Weathering	Fair Poor	Fair Poor	Excellent Outstanding	Very Good Very Good	Excellent Outstanding	Good Fair	Excellent Excellent	Excellent Excellent	Good Good	Excellent Outstanding	Excellent Very Good	Outstanding Outstanding	Excellent Outstanding
OIL RESISTANCE *ASTM Oil No. 1 @ 20°C @ 100°C *ASTM Oil No. 3 @ 20°C @ 100°C	Poor Unsatisfactory Unsatisfactory Unsatisfactory	Poor Unsatisfactory Unsatisfactory Unsatisfactory	Fair Unsatisfactory Unsatisfactory Unsatisfactory	Excellent Good Good Fair	Excellent Good Excellent Fair	Excellent Good Excellent Good	Excellent 100°C Excellent 150°C Excellent Excellent 100°C Fair 150°C Fair	Excellent 100°C Excellent 125°C Excellent Excellent 100°C Fair 125°C Poor	Excellent Fair Fair Fair	Excellent Good Good Fair	Excellent Excellent Fair Fair	Excellent 150°C Excellent 150°C Excellent	Excellent 150°C Excellent Excellent 150°C Excellent

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FUEL RESISTANCE *ASTM FUEL B @ 40°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Poor	Poor	Fair	Poor	Unsuitable	Poor	Unsuitable	-	Excellent	Fair (good at low temps)	
SOLVENT RESISTANCE (20°C) Alcohol Acetone Benzene	Good Fair Unsatisfactory	Good Fair Unsatisfactory	Good Good Unsatisfactory	Good Fair Unsatisfactory	Good Fair Unsatisfactory	Good Unsatisfactory Unsatisfactory	Good Unsatisfactory Unsatisfactory	Fair Fair Unsatisfactory	Good Unsatisfactory Unsatisfactory	Good Fair Unsatisfactory	Excellent Good Fair	Good Unsuitable Good	Good Unsuitable Good	
CHEMICAL RESISTANCE Acids Bases	Fair Good	Fair Good	Good Good	Good Fair	Very Good Good	Good Fair	Poor Poor	Fair Good	Good Very Good	Fair Fair	Good Good	Excellent Good	Good Fair	
PHYSICAL STRENGTH	Excellent	Good	Good	Good	Good	Good	Good	Good	Good	Poor	Good	Good	Poor	
COMPRESSION SET	Good	Good	Good	Fair to Good	Fair	Good	Good	Good	Fair	Fair	Good	Good	Good	
TEAR & ABRASION RESISTANCE	Excellent	Good	Good	Good	Good	Good	Good	Good	Good	Poor	Very Good	Good	Poor	
RESILIENCE	Excellent	Good	Very Good	Very Good	Fair	Good	Poor	Fair	Good	Good	Fair	Fair	Fair	
PERMEABILITY TO GAS	Poor	Fairly Low	Fairly Low	Low	Low	Low	Low	Very Low	Fairly Low	Fairly Low	Good	Very Low	Fairly Low	
ELECTRICAL STRENGTH	Excellent	Excellent	Excellent	Good	Good	Poor	Fair	Good	Excellent	Excellent	Poor	Good	Excellent	
FLAME RESISTANCE	Poor	Poor	Poor	Self-extinguishing	Good	Poor	Poor	Fair	Retardant Grades Available	Good	Poor	Self-extinguishing	Self-extinguishing	
WATER RESISTANCE	Very Good	Good	Excellent	Good	Very Good	Good	Poor	Good	Good	Good	Very Good	Good	Good	