

DATA CHART

COMMON NAME	NATURAL	SBR	EPDM	BUTYL	NEOPRENE
CHEMICAL NAME	Isoprene	Styrene Butadiene Copolymer	Terpolymer of Ethelene Propylene & a Diene	Isobutene -Isoprene	Chloroprene
ABBREVIATION	NR	SBR	EPDM	IIR	CR
COST FACTOR	1	1	1	2	2
HARDNESS RANGE	30-95°	40-95°	20-85°	30-85°	30-90°
COLOURS	Full Range	Full Range	Full Range	Limited Range	Limited Range
HEAT RESISTANCE					
maximum continuous	75°C	85°C	130°C	130°C	95°C
maximum intermittent	105°C	115°C	150°C	150°C	125°C
LOW TEMPERATURE RESISTANCE	-40°C	-40°C	-40°C	-40°C	-40°C
RESISTANCE					
oxidation	Fair	Fair	Excellent	Excellent	Very Good
ozone & weather	Poor	Poor	Outstanding	Outstanding	Very Good
PHYSICAL STRENGTH	Excellent	Good	Good	Good	Good
COMPRESSION SET	Good	Good	Good	Good	Fair to Good
TEAR RESISTANCE	Very Good	Fair	Good	Good	Good
ABRASION RESISTANCE	Excellent	V. Good/Excellent	Good	Good	Good
ADHESIVE PROPERTIES	Good	Good	Fair	Fair	Good
RESILIENCE					
hot	Excellent	Good	Very Good	Fair	Very Good
cold	Excellent	Good	Very Good	Good	Very Good
PERMEABILITY TO GASES	Fair	Fairly Low	Fairly Low	Excellent	Low
DIELECTRIC STRENGTH	Excellent	Excellent	Excellent	Excellent	Good
FLAME RESISTANCE	Poor	Poor	Poor	Poor	Self-extinguishing
WATER RESISTANCE (ABSORPTION)	Very Good	Good	Excellent	Excellent	Fair
CHEMICAL RESISTANCE					
acids	Fair	Fair	Good	Good	Good
bases	Good	Good	Good	Good	Fair
SOLVENT RESISTANCE (20°C)					
alcohol	Good	Good	Good	Good	Good
acetone	Fair	Fair	Good	Good	Fair
benzene	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory
FUEL RESISTANCE					
*ASTM FUEL B @ 40°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Poor
OIL RESISTANCE					
*ASTM OIL NO.1 @ 20°C	Poor	Poor	Poor	Poor	Excellent
@ 100°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Good
*ASTM OIL NO.3 @ 20°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Good
@ 100°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Fair

The data provided within this literature is intended as a general guide to a material's general properties and behaviour. They should be read in conjunction with the appropriate standards and legislation relating to the properties and safe application of rubber. Customers must assure themselves that the parts supplied are safe in use and have been tested under actual service conditions.

DATA CHART

HYPALON*	NITRILE	SILICONE	THERBAN†	VITON*	FLUOROSILICONE
Chlorosulphonated Polyethylene	Acrylonitrile Butadiene Copolymer	Polysiloxane	Hydrogenated Acrylonitrile-Butadiene Rubber	Fluorinated Hydrocarbon	Fluorinated Polysiloxane
CSM	NBR	Si	HNBR	FPM	FSi
3	2	6	8	15	40
45-85°	40-100°	20-80°	50-95°	50-95°	40-80°
Limited Range	Limited Range	Full Range	Full Range	Limited Range	Limited Range
130°C 160°C	100°C 130°C	205°C 300°C	140°C 165°C	205°C 260°C	180°C 200°C
-25°C	-20°C	-60°C (special grades -80°C)	-20°C	-20°C	-60°C
Excellent Outstanding	Good Fair	Excellent Outstanding	Excellent Very Good	Outstanding Outstanding	Excellent Outstanding
Good	Good	Poor	Good	Good	Poor
Fair	Good	Good	Good	Good	Good
Good	Good	Poor	Very Good	Good	Poor
Fair	Good	Poor	Very Good	Good	Poor
Fair	Good	Fair to Good	Good	Good	Poor
Fair Fair	Good Good	Good Good	Fair Fair	Fair Fair	Fair Fair
Low	Low	Fairly Low	Good	Very Low	Fairly Low
Good	Poor	Good	Poor	Good	Excellent
Self-extinguishing	Poor	Good	Poor	Self-extinguishing	Self-extinguishing
Very Good	Good	Good	Very Good	Good	Good
Very Good Good	Good Fair	Fair Fair	Good Good	Excellent Fair	Good Fair
Good Fair Unsatisfactory	Good Unsatisfactory Unsatisfactory	Good Fair Unsatisfactory	Excellent Good Fair	Good Unsuitable Good	Good Unsuitable Good
Poor	Fair	Unsuitable	Good	Excellent	Fair (good at low temperatures)
Excellent Good Excellent Fair	Excellent Good Excellent Good	Excellent Good Good Fair	Excellent Excellent Excellent Excellent	Excellent 150°C Excellent Excellent 150°C Excellent	Excellent 150°C Excellent Excellent 150°C Excellent

*Du Pont Registered Trade Mark

†Bayer Registered Trade Mark