

# SONA INDUSTRIES

## Identification & Analysis of Polymer

Polymer	Natural	SBR	EPDM	Nitrile	CR Neoprene	ECO	Hypalon	Aerylic	VMQ	Viton	HNBR	Fluoro	AFLAS	Perfluoro
						Nitrile	CSM	ACM	Silicone	FKM	HSN	Silicon		Elastomer
International Code	AA	AA	DA/CA	BF/BG/BK	BC/BE	CH	CE	DF/DH	FC/FE/GE	HK		FVMQ/FK	HK	KK
Max Int Temp °C	90°C	105°C	105°C	103°C	125°C	175°C	160°C	180°C	300°C	250°C	180°C	280°C	250°C	250°C
Max Cont Temp	75°C	85°C	130°C	100°C	95°C	150°C	130°C	150°C	205°C	205°C	150°C	200°C	205°C	205°C
Lowest Temp °C	-60°C	-55°C	-50°C	-20°C	-35°C	-20°C	-25°C	-20°C	-60°C to - 80°C	-20°C	-28°C	-60°C	-5°C	-5°C
Oil Resistant	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Good	Good
Weather Resistant	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Good	Good
Hardness Range °A	30-95 <sup>0</sup>	40-95 <sup>0</sup>	30-85 <sup>0</sup>	40-100 <sup>0</sup>	30-90 <sup>0</sup>	50-90 <sup>0</sup>	40-85 <sup>0</sup>	50-85 <sup>0</sup>	40-80 <sup>0</sup>	50-95 <sup>0</sup>	45-90 <sup>0</sup>	40-80 <sup>0</sup>	65-95 <sup>0</sup>	65-90 <sup>0</sup>
Oxidation	Fair	Fair	Excellent	Good	Very Good	Good	Excellent	Excellent	Excellent	Outstanding	Excellent	Excellent	Excellent	Excellent
Ozone Weathering	Poor	Poor	Outstanding	Fair	Very Good	Good	Outstanding	Excellent	Very Good	Fair	Outstanding	Excellent	Good	Good
Oil Resistant ASTM Oil No. 1@20°C	Poor	Poor	Fair	Good	Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent
ASTM Oil No. 1@100°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Good	Good	Good	Good	Excellent	Good	Excellent	Excellent	Good	Excellent	Excellent
ASTM Oil No. 3@20°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Good	Good	Good	Good	Excellent	Good	Excellent	Fair	Good	Excellent	Excellent
ASTM Oil No. 3@100°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Good	Fair	Good	Good	Good	Fair	Excellent	Fair	Good	Excellent	Excellent
ASTM Fuel B 40°C	Unsatisfactory	Unsatisfactory	Unsatisfactory	Fair	Poor		Fair	Poor	Unsuitable	Excellent		Good	Excellent	Excellent
Solvent Resistant 20°C														
Alocohol	Good	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Excellent			
Acetone	Fair	Fair	Good	Unsatisfactory	Fair		Unsatisfactory	Unsatisfactory	Fair	Unsuitable	Good			Good
Benzene	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory		Unsatisfactory	Unsatisfactory	Unsatisfactory	Good	Fair			Good
Acids	Fair	Fair	Good	Good	Good	Good	Poor	Poor	Fair	Excellent	Good	Good	Good	Good
Bases	Good	Good	Good		Fair		Poor	Poor	Fair	Good	Good		Good	Good
Physical Strength	Excellent	Good	Good	Good	Good	Fair	Good	Good	Fair	Good	Good	Fair	Good	Good
Compression Set	Good	Good	Good	Good	Fair to Good	Fair	Good	Good	Good	Good	Good	Very Good	Fair	Fair
Tear & Abrasion	Excellent	Good	Good	Good	Good	Good	Good	Good	Poor	Very Good	Very Good	Poor	Very Good	Very Good
Resilience	Excellent	Good	Very Good	Good	Very Good	Fair	Poor	Poor	Good	Fair	Fair	Good	Fair	Fair
Gas Permesability	Poor	Fairly Low	Fairly Low	Low	Low	Low	Low	Low	Fairly Low	Very Low	Good	Fair	Fair	Fair
Electrical Strength	Excellent	Excellent	Good	Poor	Good	Good	Fair	Fair	Excellent	Good	Poor	Good	Good	Good
Flame Resistance	Poor	Poor	Poor	Poor	Self extinguisher	Fair	Poor	Poor	Good	Self extinguisher	Poor	Good	Good	Good
Water Resistance	Very Good	Good	Excellent	Fair	Good	Good	Good	Poor	Good	Good	Very Good	Very Good	Good	Good