

# GENERAL PROPERTIES FOR CONAX TECHNOLOGIES SEALANTS

BASE POLYMER-COMMON NAME	EP RUBBER	VITON®	NEOPRENE®	SILICONE	TEFLON®
CHEMICAL NAME	ETHYLENE PROPYLENE	FLUORINATED HYDROCARBON	CHLOROPRENE	POLYSILOXANE	TEFLON VIRGIN (TFE)
SAE J200 — ASTM D-2000 CLASSIFICATION	BA-CA-DA	HK	BC, BE	FC, FE, GE	N/A
ASTM D1418 DESIGNATION	EPDM, EPR	FFM	CR	FSI, P/SL, SI, VSI	N/A
DENSITY, LB/CU IN.	0.031	0.05-0.07	0.044	0.036	INA
SPECIFIC GRAVITY	0.86	1.4-1.95	1.23	0.95	2.1-2.3
PHYSICAL PROPERTIES					
DUROMETER RANGE	30-90	75-85	70-80	25-90	50-65
TEMPERATURE RANGE, °F (°C)	-60 to +250 (-51 to +121)	-10 to +450 (-20 to +232)	-40 to +200 (-40 to +93)	-94 to +450 (-70 to +232)	-300 to +450 (-184 to +232)
RESILIENCE	GOOD	FAIR	EXCELLENT	POOR TO EXC.	GOOD
TENSILE STRENGTH (PSI) @ RT	2000-3000	1500-3000	3000	600-1500	2500-3500
ELONGATION (%) @ RT	500	100-450	650-850	90-900	300
COMPRESSION SET	FAIR	GOOD TO EXC.	FAIR TO GOOD	GOOD TO EXC.	GOOD
ELECTRICAL RESISTIVITY	EXCELLENT	GOOD	FAIR	EXCELLENT	GOOD TO EXC.
IMPERMEABILITY, GAS	GOOD	EXCELLENT	GOOD	FAIR	GOOD
MECHANICAL RESISTANCE PROPERTIES					
IMPACT	GOOD	POOR TO GOOD	GOOD	POOR TO GOOD	POOR TO GOOD
ABRASION	GOOD	GOOD	GOOD TO EXC.	POOR TO EXC.	POOR TO GOOD
TEAR	FAIR	POOR TO GOOD	GOOD	POOR TO GOOD	POOR
TEMPERATURE RESISTANCE PROPERTIES					
TENSILE STRENGTH (PSI), AT 250° F (121° C)	2000	300-800	1500	550	INA
TENSILE STRENGTH (PSI), AT 400° F (204° C)	400	150-300	180	450	INA
ELONGATION (%), AT 250° F (121° C)	300-500	100-350	350	200	INA
ELONGATION (%), AT 400° F (121° C)	0-120	50-160	0-100	100	INA
HEAT AGING AT 212° F (100° C)	EXCELLENT	EXCELLENT	GOOD	EXCELLENT	INA
FLAME RESISTANCE	POOR	EXCELLENT	GOOD	FAIR TO GOOD	GOOD
STIFFENING °F (°C)	-20 to -50 (-29 to -46)	-20 to +30 (-29 to -1)	-20 to +10 (-29 to -12)	-65 to -180 (-54 to 118)	INA
BRITTLE POINT, °F (°C)	-90 (-68)	-60 to +10 (-51 to -12)	-45 (-43)	-90 to -180 (-68 to 118)	INA
ENVIRONMENTAL RESISTANCE PROPERTIES					
WEATHER	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
OXIDATION	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD
OZONE	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
RADIATION	POOR	FAIR TO GOOD	FAIR TO GOOD	FAIR TO EXC.	POOR
WATER	GOOD TO EXC.	GOOD	GOOD	EXCELLENT	EXCELLENT
ACID	GOOD TO EXC.	GOOD TO EXC.	GOOD	POOR TO GOOD	EXCELLENT
ALKALI	GOOD TO EXC.	POOR TO GOOD	GOOD	POOR TO FAIR	FAIR TO EXC.
GASOLINE, OIL, ETC.	POOR	EXCELLENT	GOOD	POOR TO FAIR	GOOD
BENZOL, TOLUOL, ETC.	FAIR	EXCELLENT	POOR	POOR TO FAIR	GOOD
DEGREASER SOLVENTS	POOR	GOOD	POOR	POOR TO GOOD	GOOD
ALCOHOL	POOR	EXCELLENT	FAIR	GOOD	EXCELLENT
HYDRAULIC FLUIDS (SILICATES)	FAIR TO GOOD	GOOD	GOOD	POOR	GOOD
HYDRAULIC FLUIDS (PHOSPHATES)	GOOD TO EXC.	POOR	POOR	GOOD	GOOD

NOTES • NA = Not Applicable • INA = Information Not Available at time of printing • VITON® is a Registered Trademark of DuPont Dow Corning Elastomers, LLC • TEFLON® is a Registered Trademark of the DuPont Company • NEOPRENE® is a Registered Trademark of DuPont Dow Corning Elastomers, LLC  
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