

# Simriz Compounds and Their Unique Characteristics

These Simriz compounds are common to applications in the following industries:

Industry Simriz Compound	Aerospace		Industrial				Oil and Gas	Food and Drug	Semiconductor				
	Z7257	498	481	485	487	497	134	484	486	488	489	495	499
Color	black	black	black	black	black	black	black	black	white	white	clear	black	clear
Hardness, Shore A Durometer	75	75	70	75	75	90	90	75	75	70	69	80	75
Temperature Range, °C	320°C -6°C	320°C -6°C	230°C -20°C	230°C -7°C	300°C -6°C	325°C 4°C	230°C -4°C	230°C -4°C	230°C -7°C	300°C -6°C	280°C -6°C	230°C -7°C	280°C -6°C
Temperature Range, °F	610°F 21°F	610°F 21°F	446°F -4°F	446°F 20°F	570°F 21°F	617°F 40°F	446°F 25°F	446°F 25°F	446°F 20°F	570°F 21°F	540°F 21°F	446°F 20°F	540°F 21°F
Tensile Strength psi MPa	2450 16.9	2700 18.6	2480 17.1	2690 18.5	2720 18.6	2300 15.86	3120 21.5	3210 22.1	2620 18.0	2920 20.1	1960 13.5	2600 18.0	2650 18.3
Elongation, %	175	160	260	195	170	140	160	165	190	190	235	160	200
Compression Set, % 70 hours at 200°C	29 at 230°C	23 at 230°C	27	25	-	-	29	34	25	-	-	23	13
Compression Set, % 70 hours at 250°C	-	-	-	-	-	-	-	-	-	-	20	-	-
Compression Set, % 70 hours at 275°C	-	-	-	-	26	44	-	-	-	28	-	-	-
Volume Swell, % in water, 70 hours at 200°C	1.9	-	6.3	5.1	1.9	-	-	6.5	5.9	3.2	-	-	-

*Simrit is the single-source developer of Simriz, starting with the base polymer, thus ensuring complete oversight and continuity in the compounding process. Eliminating any need for costly outsourcing, Simriz compounds offer the highest seal quality at a highly competitive price.*

