

OVERVIEW ELASTOMERIC MATERIALS FOR THE PROCESS INDUSTRY

MATERIAL	NAME	COLOR	CROSS-LINKING	HARDNESS SHORE A	TEMPERATURE RANGE IN AIR	PRODUCTS	CERTIFICATIONS FOOD/PHARMACEUTICAL	OTHERS
EPDM	60 EPDM 290	black	peroxidic	65 ± 5	-40°C bis +150°C / -40 °F to +302 °F	Diaphragms	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006	W270 ADI free
	70 EPDM 291	black	peroxidic	75 ± 5	-40°C bis +150°C / -40 °F to +302 °F	Clamp seals Diaphragms Molded parts Hygienic Usit® O-rings CNC machined	FDA 21 CFR 177.2600 3-A® EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 - Class VI	NSF 61 KTW W270 ACS KIWA ÖNORM B 5014-1 ADI free
	70 EPDM 391	black	peroxidic	70 ± 5	-40°C bis +150°C / -40 °F to +302 °F	Profiles Cords	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87	ADI free
	85 EPDM 292	black	peroxidic	85 ± 5	-40°C bis +150°C / -40 °F to +302 °F	Molded parts O-rings CNC machined	FDA 21 CFR 177.2600 3-A® Class II EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	NSF 61 KTW W270 WRAS ADI free
	85 EPDM 302	black	peroxidic	85 ± 5	-40°C bis +150°C / -40 °F to +302 °F	Molded parts	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free
	75 EPDM 253356	black	peroxidic	75 ± 5	-30°C bis +140°C / -22 °F to +284 °F	Molded parts CNC machined	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006	ADI free
	70 EPDM 253815	white	peroxidic	70 ± 5	-40°C bis +150°C / -40 °F to +302 °F	Clamp seals Molded parts O-rings	FDA 21 CFR 177.2600 3-A® Class II EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free

VMQ (Silikon)	78 VMQ 166898	grey	peroxidic	78 ± 5	-40°C bis +200°C / -40 °F to +392 °F	O-rings	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006	ADI free
	76 VMQ 176643	red	peroxidic	76 ± 5	-40°C bis +200°C / -40 °F to +392 °F	Molded parts	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006	ADI free
	70 VMQ 117055	transparent	peroxidic	70 ± 5	-50°C bis +200°C / -58 °F to +392 °F	Clamp seals Molded parts Diaphragms O-rings	FDA 21 CFR 177.2600 3-A® Class I EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free
NBR	70 NBR 150	black	peroxidic	70 ± 5	-20°C bis +100°C / -4 °F to +212 °F	Clamp seals Molded parts Diaphragms O-rings	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006	NSF 61 ACS ADI free
	88 NBR 156	black	peroxidic	88 ± 5	-25°C bis +100°C / -13 °F to +212 °F	Molded parts O-rings CNC machined	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006	ADI free
HNBR	70 HNBR 254067	green	peroxidic	70 ± 5	-30°C bis +140°C / -22 °F to +284 °F	Molded parts	FDA 21 CFR 177.2600	ADI free
	75 HNBR 231142	black	peroxidic	78 ± 5	-35°C bis +140°C / -31 °F to +284 °F	O-rings	FDA 21 CFR 177.2600	ADI free
	85 HNBR 216553	green	peroxidic	85 ± 5	-25°C bis +140°C / -13 °F to +284 °F	Molded parts	FDA 21 CFR 177.2600	ADI free
Fluoroprene® XP	75 Fluoroprene XP 40	blue	peroxidic	75 ± 5	-15°C bis +200°C / +5 °F to +392 °F	O-rings	FDA 21 CFR 177.2600 3-A® Class I EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free
	75 Fluoroprene XP 41	blue	peroxidic	75 ± 5	-15°C bis +200°C / +5 °F to +392 °F	Clamp seals Molded parts CNC machined O-rings Diaphragms Profiles	FDA 21 CFR 177.2600 3-A® Class I EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI NSF 51	ADI free
	85 Fluoroprene XP 43	blue	peroxidic	85 ± 5	-15°C bis +200°C / +5 °F to +392 °F	Molded parts	FDA 21 CFR 177.2600 3-A® Class I EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free
	75 Fluoroprene XP 44	blue	peroxidic	75 ± 5	-15°C bis +200°C / +5 °F to +392 °F	Diaphragms	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006	ADI free

FKM	75 FKM 180497	black	bisphenolic	75 ± 5	-25°C bis +200°C / -13 °F to +392 °F	O-rings Molded parts Diaphragms	FDA 21 CFR 177.2600 3-A® Class I EU (VO) 1935/2004 EU (VO) 2023/2006	ADI free
	70 FKM 37508	red-brown	bisphenolic	75 ± 5	-15°C bis +200°C / +5 °F to +392 °F	Molded parts Diaphragms O-rings	FDA 21 CFR 177.2600 3-A® Class I EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free
	75 FKM 38269	black	peroxidic	75 ± 5	-25°C bis +200°C / -13 °F to +392 °F	O-rings	FDA 21 CFR 177.2600 3-A® Class I EU (VO) 1935/2004 EU (VO) 2023/2006	ADI free
Simriz® (FFKM)	70 Simriz 491	black	peroxidic	70 ± 5	-20°C bis +230°C / -4 °F to +446 °F	Molded Parts Diaphragms O-rings		ADI free Low Temperature
	75 Simriz 494	black	peroxidic	75 ± 5	-15°C bis +230°C / +5 °F to +446 °F	Diaphragms on request O-rings	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free
	75 Simriz 495	black	peroxidic	75 ± 5	-15°C bis +250°C / +5 °F to +482 °F	O-rings		ADI free
	75 Simriz 497	black	peroxidic	75 ± 5	-15°C bis +325°C / +5 °F to +617 °F	Molded parts O-rings		High temperature
	75 Simriz 506	white	peroxidic	72 ± 5	-15°C bis +230°C / +5°F to +446 °F	Molded parts O-rings	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	ADI free
	80 Simriz 492	black	peroxidic	80 ± 5	-10°C bis +230°C / +14 °F to +446 °F	Molded parts	FDA 21 CFR 177.2600 EU (VO) 1935/2004 EU (VO) 2023/2006 USP Ch. 87 USP Ch. 88 – Class VI	Chemical application
	85 Simriz 496	black	peroxidic	85 ± 5	-15°C bis +250°C / +5 °F to +482 °F	O-rings		Chemical application