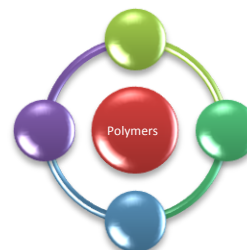




Technical Reference Bulletin Rubber Shelf Life

The shelf life of cured rubber compounds is dependent upon the type of polymer and the condition under which it is stored. Optimum conditions include shielded from light, ozone and humidity at a temperature lower than 90° F. The Society of Aerospace Engineers has developed an Aerospace Recommended Practice (ARP) 5316 as the industry standard for establishing polymer shelf life.



Poly Type	Polymer Chemical Description	Common or Trade Name	Shelf Life in Years
CR	Chloroprene	Neoprene	15
CSM	Chlorosulfonated Polyethylene	Hypalon	Unlimited
EPDM	Ethylene Propylene Diene Monom	EPDM	Unlimited
FFKM	Perfluorocarbon	Kalrez	Unlimited
FKM	Fluorocarbon	Viton, Fluorel	Unlimited
FVMQ	Fluoro Methyl Vinyl Silicone	Fluorosilicone	Unlimited
IIR	Isobutylene Isoprene	Butyl	Unlimited
NBR	Butadien Acrylonitrile	Buna N, Nitrile	15
PVMQ	Phenyl Methy Vinyl Silicone	Silicone	Unlimited
Q	Silicone Rubber-General Purpose		Unlimited
VMQ	Methyl Vinyl Silicone	Silicone	Unlimited

Listed below are is the recommended shelf life from Mil-HDBK-695D (28 April 2004)

ACM	Polyacrylate	Acrylic	20
AU	Polyester Urethane	Urethane	3-5
CR	Chloroprene	Neoprene	15
CIIR	Chlorobutyl	Butyl	10
ECO	Epichlorohydrin	Hydrin	10
EU	Polyether Urethane	Urethane	5-10
HSN	Highly Saturated Nitrile	HNBR	15
IIR	Isobutylene Isoprene	Butyl	10
MED	Medical Grade Silicone		20
NR	Isoprene	Natrual Rubber	5
SBR	Styrene Butadiene	Buna S	5