

## Comparison of Raw Materials

Scale: 5 = Excellent ... 1 = Poor

Type of Elastomer	Natural Rubber NR	Styren - Butadien Rubber NR/SBR	Nitrile Rubber NBR	Chloroprene Rubber CR	Silicone Rubber Q	Ethylene Propylene Diene Monomer Rubber EPDM	Thermoplastic Elastomer SEBS/TPE
Tensile strength MN/m <sup>2</sup>	4-25	4-25	4-18	4-20	3-10	4-18	5-8
Elongation at break %	100-600	100-500	100-400	100-500	400-700	100-400	400-600
Operating temperature (°C)							
- Long-term (°C)	60	70	80	80	200	90	100
- Short-term (°C)	100	100	130	130	275	150	100
- Below freezing (-°C)	30-60	20-50	10-50	20-50	50-80	30-60	40
Compression set °C/%	70/20-60	70/20-60	100/20-60	100/30-80	150/20-60	100/25-60	70/30-40
Elasticity	5	4	3-4	3-4	1-3	3	3
Electrical properties	3	3	1-2	3	4	4	4
Resistance:			oil resistant				
- Weather and ozone	1-2	1-2	1-3	4	5	5	4
- Chemical resistance	limited	limited	limited	limited	limited	limited	limited
- Abrasion	4-5	4	3-4	3-4	1-3	3	2-3
- Flame	1	1	1-2	3-4	2-5	1	1-2
Gas tight	3	3	3	3-4	1-2	2-3	1-2
Glueability	4	3	3-4	3-4	1-2	1	1-2