

Technical Rubber Compounds

Commercial code	Rubber type	Colour	Hardness	Tensile strength	Elongation at break	Density [g/cm ³]	Range of temperature dry air [°C]	Compression set, small, 24h/70 C [%]	Wear resistance	Resistance to weather and ozone	Resistance to hydrolysis (water & steam)	Resistance to chemicals (acid/bases)	Resistance to mineral oil & gas	Applications	Properties
			[Sh A] ISO 7619-1	[Mpa] ISO 37	[%] ISO 37										
OM 1100	Bromobutyl (BIIR)	Black	25 ±5	n/a	n/a	1.26 ±0.02	-10 to +70	16	••	••	••	•	•	1. Dampers 2. Tubes 3. Membranes 4. Antivibration mounting 5. Medical industry	1. High impermeability to gases and liquids 2. Excellent aging stability 3. Very good heat resistance 4. good damping properties
OM 1105	Bromobutyl (BIIR)	Black	31 ±5	n/a	n/a	1.09 ±0.02	-10 to +120	12	••	••	○	••	•		
OM 1108	Bromobutyl (BIIR)	Black	37 ±5	n/a	n/a	1.00 ±0.02	-10 to +120	9	••	••	○	••	•		
OM 1132	Bromobutyl (BIIR)	Grey	48 ±5	4.0	650	1.36 ±0.02	-10 to +140	28	••	••	••	••	•		
OM 1133	Bromobutyl (BIIR)	Blue	48 ±5	4.0	650	1.38 ±0.02	-10 to +140	28	••	••	••	••	•		
OM 1134	Bromobutyl (BIIR)	Black	18 ±5	n/a	n/a	1.11 ±0.02	-10 to +120	26	••	••	○	••	○		
OM 1137	Bromobutyl (BIIR)	Black	30 ±5	n/a	n/a	1.00 ±0.02	-10 to +120	16	••	••	○	••	○		
OM 1139	Bromobutyl (BIIR)	Black	25 ±5	n/a	n/a	1.01 ±0.02	-10 to +120	22	••	••	○	••	○		
OM 1147	Bromobutyl (BIIR)	Black	57 ±5	n/a	n/a	n/a	n/a	n/a	○ - •	n/a	n/a	n/a	n/a		
OM 1079	Chloroprene (CR)	Black	32 ±5	n/a	n/a	1.26 ±0.02	-20 to +110	19	•••	•••	••	••	••	1. Membranes 2. Dampers 3. Hearing aids 4. Bellows and dust caps 5. General purpose seals	1. Aging and heat resistance 2. Resistance to biological factors (fungi and soil bacteria) 3. Low gas permeability 4. Good electrical properties
OM 1097	Chloroprene (CR)	Grey	52 ±5	11	600	1.52 ±0.02	-10 to +100	27	•••	•••	••	••	••		
OM 1117	Chloroprene (CR)	Black	46 ±5	13.2	450	1.28 ±0.02	-20 to +110	10	••	••	•	••	•		
OM 1061	Bromobutyl/Chloroprene (BIIR/CR)	Black	25 ±5	n/a	n/a	0.98 ±0.02	-10 to +110	28	••	•••	••	•	○	1. Dampers 2. Tubes 3. Membranes 4. Antivibration mounting 5. Medical industry	It's a rubber blend with 80 - 90% of BIIR rubber and 10 - 20% of CR rubber. It consists mainly BIIR rubber properties with a little addition of CR rubber properties.
OM 1082	Bromobutyl/Chloroprene (BIIR/CR)	Black	55 ±5	9.3	450	1.17 ±0.02	-10 to +130	13	••	••	••	••	○		
OM 1107	Bromobutyl/Chloroprene (BIIR/CR)	Black	39 ±5	n/a	n/a	0.92 ±0.02	-10 to +120	14	••	••	○	••	•		
OM 1109	Bromobutyl/Chloroprene (BIIR/CR)	Black	51 ±5	7.1	275	1.15 ±0.02	-10 to +130	15	••	••	••	••	○		
OM 1111	Bromobutyl/Chloroprene (BIIR/CR)	Black	42 ±5	n/a	n/a	0.94 ±0.02	-10 to +120	16	••	••	•	•	•		
OM 1141	Ethylene-Propylene (EPDM)	Black	56 ±5	n/a	n/a	1.07 ±0.02	-40 to +130	n/a	•••	••••	••	••	•	1. Water system o-rings 2. Electrical insulations 3. Ozone exposure applications 4. Outdoor applications 5. Automotive industry	1. Ozone and UV resistance 2. Stability in low and high temperatures 3. Electrical insulation
OM 1121	Bromobutyl/Ethylene-Propylene (BIIR/EPDM)	Black	70 ±5	9.9	410	1.20 ±0.02	n/a	29	•••	•••	••	••	••	Similar applications as BIIR rubber but can be also considered as a EPDM rubber replacement.	It's a rubber blend with 60% of BIIR rubber and 40% of EPDM rubber. It consists BIIR rubber properties as well as EPDM rubber properties.
OM 1095	Fluoroelastomer (FPM)	Black	80 ±5	10.7	570	1.84 ±0.02	-20 to +180	17	••••	••••	•••	•••	•••	1. Gaskets 2. Seals 3. O-rings 4. Diaphragms 5. Food Industry 6. Medical industry	1. Heat resistance 2. Resistance to oils, fuels, lubricants, most mineral acids and aggressive chemicals 3. Resistance to biological factors - fungus and mold 4. Good electrical properties in low voltage
OM 1096	Fluoroelastomer (FPM)	Black	68 ±5	10.7	570	1.84 ±0.02	-20 to +180	16	••••	••••	•••	•••	•••		
OM 1138	Nitrile (NBR)	Grey	64 ±5	7.8	470	1.27 ±0.02	-10 to +150	34	••••	••	••	••	••	1. O-rings 2. Grommets 3. Seals 4. Automotive and aeronautical industry	1. Resistance to petroleum 2. Strong resistance to heat aging 3. Very good abrasion resistance
OM 1112	Silicone (Q)	Transparent	70 ±5	11.0	440	1.18 ±0.02	-40 to +200	3	••	•••	••	•••	○		
OM 1113	Silicone (Q)	Transparent	25 ±5	6.0	650	1.10 ±0.02	-40 to +200	3	••	•••	••	•••	○		

OM 1144	Silicone (Q)	Black	70 ±5	9.2	290	1.18 ±0.02	-30 to +210	3	••	•••	••	•••	○	1. O-rings 2. Sealings 3. Insulators 4. Automotive industry 5. Medical industry	1. Heat and cold resistance 2. Moisture and steam resistance 3. Resistance to chemicals 4. Electrical insulation 5. Thermal conductivity
OM 1146	Silicone (Q)	Black	50 ±5	11.0	550	1.15 ±0.02	-30 to +200	3	••	•••	••	••	○		
OM 1148	Silicone (Q)	Blue	60 ±5	n/a	575 ±85	1.17 ±0.01	-20 to +200	4	•	•••	••	••	•		
OM 1150	Silicone (Q)	Black	50 ±5	11.0	510	1.15 ±0.02	-30 to +200	2,85	••	•••	••	•••	○		
OM 1151	Silicone (Q)	Blue	90 ±5	9.2	290	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
OM 1153	Silicone (Q)	Transparent	47 ±5	8.8	400	1.14 ±0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

• Poor
•• Average
••• Good
•••• Very good