

Properties RoPlasthan® – Comparison to other Elastomers

	Rubber							RoPlasthan			
	NR (Natural Rubber)	SBR (Styrene- Butadiene Rubber)	IIR (e. g., Butyl Rubber)	CR (e. g., Neoprene)	NBR (Acrylonitril- Butadiene Rubber)	EPDM / EPM	FPM / FKM	1100	1200	1300	1500
Shore hardness A	35–95	40–95	40–85	30–90	30–95	25–85	50–90	55–95	55–95	65–95	70–95
Tear resistance up to [N/mm ²]	30	25	20	20	25	20	20	55	60	45	50
Elongation at break to [%]	800	450	700	450	500	450	400	800	750	700	550
Max. temporary operating temperature [°C]	-50–+80	-40–+100	-40–+130	-35–+110	-35–+120	-40–+150	-30–+220	-30–+80	-25–+80	-50–+70	-25–+100
Abrasion resistance [mm ³]	150	170	320	550	330	210	580	< 30	< 30	< 30	< 30
Tear propagation resistance to [N/mm]	15	20	20	7	15	15	10	80	85	55	60
Elasticity	++	+	+	+	+	+	–	++	++	++	++
Aging, oxidation	0	+	+	+	0	++	++	++	++	+	++
Weather and ozone resistance	–	–	–	++	0	++	++	++	++	+	++
Resistance against:											
Oil and waxes	–	–	–	+	++	–	++	++	++	+	++
Gasoline	–	–	–	0	++	–	++	++	++	0	++
Mineral oil	–	–	–	0	++	–	++	++	++	0	++
Acids	+	+	+	+	0	++	++	–	–	+	+
Alkalines	+	+	+	+	0	+	++	–	–	+	+

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