

MATERIAL PROPERTIES				
	POLYPROPYLENE (PP)	POLYAMIDE (PA)	ALUMINIUM (AL)	THERMOPLASTIC ELASTOMER (TPE)
MECHANICAL PROPERTIES				
Izod Impact Strength (Notched,23°C)	>40 KJ/m ² ISO 180	>5 KJ/m ² ISO 180	--	--
Izod Impact Strength (Notched,-30°C)	>6 KJ/m ² ISO 180	>2 KJ/m ² ISO 180	--	--
Modulus of elasticity	1200-1250 N/mm ² ISO 527-2	2000 N/mm ² ISO 527-2	70,000 N/mm ²	3,6 N/mm ² (MODULUS@100) ASTM D 412
Tensile strength	>23 N/mm ² ISO 527-2	>60 N/mm ² ISO 527-2	>160 N/mm ² DIN EN 10002	>3,95 N/mm ² ASTM D 412
Hardness	>80 ISO 2039-2 (Rockwell-R)	>70 ISO 878 (Shore D)	>80 Brinell hardness	>85 ASTM D 2240 (Shore A)
Temperature range	-30°C/90°C	-40°C/120°C	Max. 300°C	-40°C/120°C
CHEMICAL PROPERTIES				
Acids, Solvents	Conditionally Consistent	Conditionally Consistent	Conditionally Consistent	Conditionally Consistent
Hydrocarbons,Mineral oils	Conditionally Consistent	Consistent	Consistent	Consistent
Alcohol, Seawater, Other oils	Consistent	Consistent	Consistent	Consistent

All metal parts are made of carbon steel St 37-2 (S235JR EN 10025) as a standard. Stainless steel (AISI 304, AISI 316) is also available upon request.