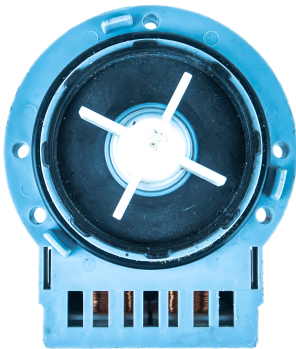


# Engineering Plastics for Pump parts

BASF has been a key industry leader in plastics development since the 1930s. They are known worldwide for their versatile product line of engineered plastics.

**BASF Plastics are suitable for pump heads and impellers. They have been used in washing machines for years.**



## Key Questions to determine the best product fit

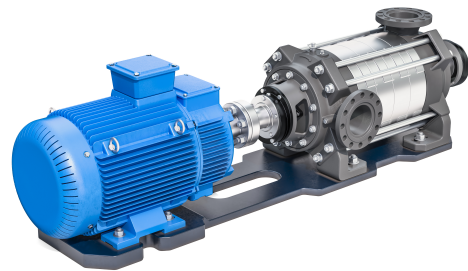
- Do you have pumps where you either use plastic components or would like to replace metal with plastic?
- What pressure do your pumps need to withstand?
- What fluids are used or is the pump exposed to?
- What is the temperature of the fluids?

## Pump Parts

- Pump Head
- Impeller

## BASF Grades

- Ultramid® A3HG6 HR  
(for hot water use)
- Ultradur® B4300 G6 HR  
(for good dimensional stability)
- Ultramid® Advanced  
(glass-filled PPAs for high temperature applications)



# BASF Ultramid® Advanced product comparison

## Properties: overview

	T <sub>g</sub>	T <sub>m</sub>	HDT A ISO 75	Specific gravity ISO 1183	E-modulus ISO 527	Tensile strength ISO 527	Elong. at break ISO 527	Charpy unnotched ISO 179/1eA	Charpy notched ISO 179/1eA	Shrinkage longit./ perpend.
Product	[°C]	[°C]	[°C]	[g/cm³]	[MPa]	[MPa]	[%]	[kJ/m²]	[mm]	[%]
Ultramid® Adv. T1000HG7 (6T/6l GF35)	130	325	>280	1.5	14,000/14,000	230/210	2	70	10	0.4 0.9
Ultramid® Adv. T2000HG6 (6T/66 GF30)	90	310	>280	1.4	10,000/10,000	195/155	3	80	8	0.5 1.1
Ultramid® Adv. N4HG7 (9T GF35)	125	300	270	1.4	11,500/11,500	210/190	3	90	10	0.4 0.9
Ultramid® TKR 4355G7 (6T/6 GF35)	85	295	245	1.4	12,000/12,000	210/200	3	100	14	0.3 1.0
Ultramid® A3HG7 (PA66 GF35)	60	260	250	1.4	11,200/8,500	200/150	3/5	95/100	13/22	0.5 1.1



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