CONVENTUS

BEYOND POLYMERS

Potable Water Application Solutions Guide

Materials designed for hydrolytic stability, high heat, chemical resistance and dimensional stability.

The safety of water management components is critical to ensure clean drinking water for those across the world. The continuous implementation of plastic within these systems calls for the regulation and testing of the materials used. Conventus Polymers compounds and distributes polymers that are safe, efficient, and resistant to plumbing, heating, and sanitary systems.

NSF 61- determines the health effects of materials and products that come into contact with drinking water, drinking water chemicals, or both in the **United States and Canada.**

KTW- in accordance with standards from the Federal Environmental Agency (UBA) of **Germany,** determine if non-tolerable changes in drinking water occur due to non-metal products released substances.

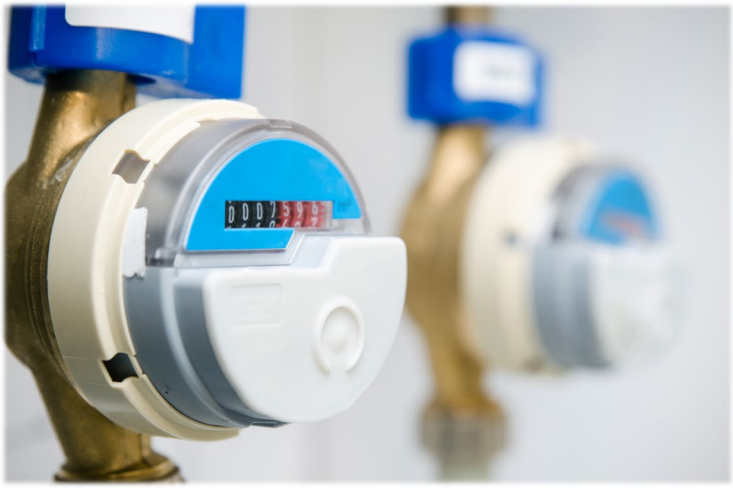
W270/DVGW- Under **German** Federal Environment Agency and German Technical and Scientific Association for Gas and Water, certifies the product does not have any microbial growth on surfaces that come in contact with drinking water

WRAS- In compliance with Water Supply (Water Fittings) Regulations or Scottish Byelaws in the **United Kingdom,** determines water fittings do not allow waste, misuse, undue consumption, or contamination of the water supply

ACS- According to regulations of the Attestation de Conformité Sanitaire (ACS) of **France,** determines materials coming in contact with drinking water do not alter the properties of water necessary for the AC

Applications:

- Pumps and valves
- Water meters
- Boilers
- Heating system components
- Sanitary faucets and shower components
- Water softeners
- Water filtration
- Pipes, fittings and valves
- Toilet valve water meter



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Resin	Type	Description		Grades	NSF 61	KTW	W270/DVGW	WRAS	ACS
Sabic Noryl	PPO + PS blend	• Hydrolytic Stability • Low water absorption • Dimensional stability • Low creep	20-40% Glass filled	FE1410PW, FE1520PW, FE1740PW, FE1630PW	X	X	X	X	X
				731S	X	X	X	X	X
			UL746C f2, Glass filled PPE+HIPS High ductility & Impact UL746C f1, Glass filled 30% Glass filled Copper & Brass replacement, Glass filled	ENG265F GFN3F, GFN2F GFN1630V 731F WM230N GFN1F, GFN2F, GFN3F GTX 830 (PA66/PPO) PPX630F, PPX640F, PX1543F, PX4608F	X				
Sabic LNP Elcrin	PBT w/ PCR Content	• Post-consumer recycled content • Excellent strength, stiffness, and dimensional stability	30% glass filled, minimum 37% PCR weight content	WF006LIQ	X	X	X	X	X
Sabic Ultem	PEI	• Excellent strength • Excellent abrasion resistance • Unparalleled mechanical performance in high heat, chemically challenging environments	Unreinforced to 30% Glass filled	PW2300, PW2100, PW1000	X	X	X	X	X
EMS Grilamid L PA 12 FWA	PA12	• Very low water absorption • High dimensional stability • Excellent chemical and UV resistance • Strong Hydrolysis resistance • High impact strength • High elongation compared to other technical polymers with identical stiffness values • Very favorable processing parameters due to low mold and material temperatures	Improved UV & Impact	20H FWA	X	X	X	X	X
				LBKN-30H FWA, LBKN-50H FWA, LBKN-65H FWA	X	X	X	X	X
			Outdoor use, Impact Modified, 30-65% Glass filled	LV-30H FWA, LV-50H FWA, LV-65H FWA	X	X	X	X	X
EMS Grivory GV FWA	Partially Aromatic Polyamide	• High level of stiffness and strength • Little change in property values after absorption of moisture • Low dampness and water absorption • Good dimensional stability and low warpage • Good chemical resistance, typical of polyamides • Good surface quality	20-40% Glass filled	GV-2 FWA, GV-4 FWA, GV-5 FWA, GV-6 FWA	X	X	X	X	X
EMS Grivory HT	PPA	• Stiffness and strength at high operating temps • Little change in property values after water absorption • Good dimensional stability • Good chemical resistance • Good surface quality	Outdoor Use, 30-60% Glass filled	HT1V-3 FWA, HT1V-4 FWA, HT1V-5 FWA, HT1V-6 FWA	X	X	X	X	X
Toray Torelina	PPS	• Heat Resistance • Dimensional stability • Outstanding chemical resistance • High strength and rigidity with minimum decline at high temperatures • Outstanding anti-fatigue and anti-creep • Inherently flame retardant • Outstanding flowability	40% Glass filled 30% Glass, High Impact Elastomer-modified	A604-WR A673M-WR A670R63	X	X	X	X	X
			30% Glass, High Impact	A673M-T	X			X	
YOUJU Paryls	PPSU	• Dimensionally stable Outstanding ductility • HDT of 207C • Capable of 1000+ autoclave cycles • Inherently flame retardant	UL94 V-0 UL94 V-0 UL94 V-0, High Flow	F1150 F1250 F1350	X				
	PSU	• Excellent hydrolytic stability High strength • HDT of 174C • Capable of 100+ Autoclave cycles • Inherently flame retardant	UL94 V-1 UL94 V-1 UL94 V-1, High Flow	F3050 F3150 F3250	X				
	mPPSU	• Improved notch resistance to PSU • Most cost-efficient • Properties fall between PSU and PPSU		M1150	X				
LG Chem Lumiloy	mPPE	• Excellent dimensional stability • Great electrical properties • High heat resistance • Good hydrolysis resistance • Great processability • Excellent impact resistance	20-30% Glass filled	GP2200, GP2300	X			X	X
			20-30% Glass filled	GP2200K, GP2300K	X	X		X	X
Hyosung Poketone	POK	• Good dimensional stability • High impact strength • Great chemical resistance • Great wear resistance • Short molding cycles • Flame retardant	High Flow High Viscosity Mono-filament	M330F, M930F M630F M710F, M730F	X	X	X	X	X
				M410FS	X	X	X		X
			30% Glass filled	M33FG6A	X	X	X		
Idemitsu Xarec	SPS	• Good solvent resistance • Excellent electrical properties • Hydrolysis resistance • HDT of 250 °C	20-30% Glass filled	WA210, WA212, WA552	X				