

APPLICATIONS IN FOCUS



PLASTICS AND DRINKING WATER

THE PRODUCT PORTFOLIO FOR THE
SANITARY AND WATER INDUSTRY



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Water plays a key role in our daily lives. Clean water is a staple food and essential for every human being. The components intended for contact with water are subject to stringent regulations and controls to ensure clean water. In addition to the hygienic and microbial aspects materials must comply with other technical requirements such as strength, corrosion and chemical resistance.

The TER Plastics POLYMER GROUP has a wide portfolio of plastics for use in drinking water applications. The range includes materials that are approved for contact with hot and cold water. Engineering plastics possess low migration values, neutral taste and corrosion resistance. Their high mechanical property profiles lead to optimum solutions in the household and sanitary sector.

POM – Duracon®, Tarnoform®

Polyoxymethylene (POM), also known as polyacetal, is a semi-crystalline soft plastic. As an engineering plastic POM is particularly being used for precision parts due its high stiffness, low friction and excellent dimensional stability. POM absorbs very little water thus the physical properties of the moldings only change slightly. The good chemical resistance and low water absorption make POM ultimately suitable for use in contact with food and drinking water. The DURACON products distinguish themselves by their global certification for drinking water applications.

PA66 – Technyl®

Polyamide 66 is a semi-crystalline soft plastic with a balanced property profile. It combines high chemical resistance with excellent mechanical properties. Technyl A218 W V30 is used in many applications in the sanitary sector.

PA66 + 6I/6T – TEREZ® GT3

TEREZ GT3 is a semi-crystalline, partially aromatic construction material for metal replacement. It combines highest strength and stiffness with excellent surface quality and chemical resistance. These properties are only marginally affected by water absorption. The TEREZ GT3 W-Series is physiologically safe and can be used in direct contact with drinking water.

Different country guidelines exist worldwide for the approval of nished parts with contact to drinking water. The scope of testing includes possible contamination of the water with hazardous substances, sensory analysis but also growth of bacteria. Key tests include:

Germany

KTW (Kontakt mit Trinkwasser = contact with drinking water)
DVGW (Deutscher Verein des Gas- und Wasserfaches = German Association for gas and water applications)
W270 – Determination of microbial growth

France

ACS (Accreditation de Conformite Sanitaire = contact with drinking water)
AFNOR XPP 41-250

Great Britain

WRAS (Water Regulation Advisory Scheme) British Standard
BS 6920

U.S.A

NSF 61 (National Sanitation Foundation)



Material	Producer	Product	Product Code	KTW	DVGW, W270	WRAS	ACS	NSF61
TPC-ET	DSM	Arnitel	EM 400			•		
TPC	DSM	Arnitel	PL 380			•		
PA410	DSM	EcoPaXX	Q-DWX6	•	•	•	•	•
PA410	DSM	EcoPaXX	Q-DWX10	•	•	•	•	•
PA4T	DSM	ForTii	WX11-FC	•	•	•	•	•
POM	GRUPA AZOTY S.A.	TARNOFORM	T200 natural		•			
POM	GRUPA AZOTY S.A.	TARNOFORM	T300 natural	•	•	•	•	
POM	GRUPA AZOTY S.A.	TARNOFORM	T400 natural	•	•	•	•	
POM	GRUPA AZOTY S.A.	TARNOFORM	T500 natural	•	•	•	•	
POM	POLYPLASTICS EUROPE GMBH	DURACON	AW-01 natural					•
POM	POLYPLASTICS EUROPE GMBH	DURACON	M25-44 natural			•		
POM	POLYPLASTICS EUROPE GMBH	DURACON	M90-44 natural	•	•	•	•	•
POM	POLYPLASTICS EUROPE GMBH	DURACON	M90-44 black			•		•
POM	POLYPLASTICS EUROPE GMBH	DURACON	M90-57 natural	•	•		•	•
POM	POLYPLASTICS EUROPE GMBH	DURACON	M270-44 natural			•		•
POM	POLYPLASTICS EUROPE GMBH	DURACON	M270-57 natural	•	•		•	•
POM	POLYPLASTICS EUROPE GMBH	DURACON	GB-25R natural			•		•
POM	POLYPLASTICS EUROPE GMBH	DURACON	GH-25 natural	•	•	•		•
PPS	POLYPLASTICS EUROPE GMBH	DURAFIDE	1140A1 black	•	•	•	•	•
PA66	SOLVAY ENGINEERING PLASTICS	TECHNYL	A218 W V30 natural	•	•	•	•	•
PA66	SOLVAY ENGINEERING PLASTICS	TECHNYL	A218 W V30 black	•	•	•	•	•
PA66	SOLVAY ENGINEERING PLASTICS	TECHNYL	A218 W V50 black	•	•	•	•	•
PA6.10	SOLVAY ENGINEERING PLASTICS	TECHNYL eXten	D219 WFC V30 black	•	•	•	•	•
PA6.10	SOLVAY ENGINEERING PLASTICS	TECHNYL eXten	D219 WFC V50 black	•	•	•	•	•
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	300 HG30 W	•	•			
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	300 HG40 W	•	•			
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	300 HG50 W	•	•			
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	300 HG60 W	•	•			
PPA	TEREZ PERFORMANCE POLYMERS	TEREZ HT	100 HG50	•				

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