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APPLICATIONS IN FOCUS

PLASTICS AND DRINKING WATER

THE PRODUCT PORTFOLIO FOR THE SANITARY AND WATER INDUSTRY

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APPLICATIONS IN FOCUS

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.

Monprene® TPE's

For flexible components such as gaskets, seals, and membranes, Teknor Apex offers Monprene® thermoplastic elastomers (TPEs) for direct and indirect contact with drinking water.
The Monprene RG-14000 series is formulated using FDA compliant ingredients for food contact and comply with European directives, EU 1935/2004, PIM 10/2011, as well as to meet Germany's stringent drinking water requirements, including the KTW guideline and DVGW Technical Standard W270.

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 finished 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.
NSF 61 (National Sanitation Foundation)

Material	Producer	Product	Product Code	KTW-BWGL	DVGW (DIN EN 16421)	WRAS	ACS	NSF61
POM	CELANESE	TARNOFORM	T200 natural		●			
POM	CELANESE	TARNOFORM	T300 natural	●	●	●	●	
POM	CELANESE	TARNOFORM	T400 natural	●	●	●	●	
POM	CELANESE	TARNOFORM	T500 natural	●	●	●	●	
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	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	●	●	●	●	●
TPE	TEKNOR APEX	MONPRENE	RG-14050 natural/black	●	●			
TPE	TEKNOR APEX	MONPRENE	RG-14060 natural/black	●	●			
TPE	TEKNOR APEX	MONPRENE	RG-14070 natural/black	●	●			
TPE	TEKNOR APEX	MONPRENE	RG-14080 natural/black	●	●			
TPE	TEKNOR APEX	Monprene	RG-14090 natural/black	●	●			
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	301 HG30 W	●	●			
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	301 HG40 W	●	●			
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	301 HG50 W	●	●			
PA66+6I/6T	TEREZ PERFORMANCE POLYMERS	TEREZ GT3	301 HG60 W	●	●			

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