

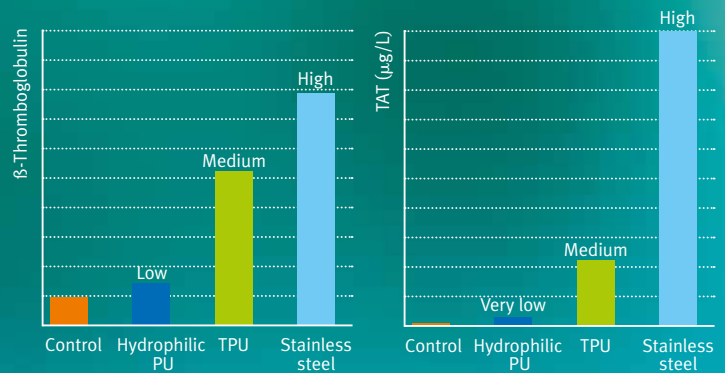
NEW

BAYER OFFERS NEW HYDROPHILIC MEDICAL COATINGS: BAYMEDIX™ CH SERIES

HYDROPHILICITY & HEMOCOMPATIBILITY*



Low contact angle – high wettability



Very low cellular and plasmatic thrombocytes coagulation compared to TPU and stainless steel

These unique coating materials combine the strength and flexibility of polyurethane with exceptional hydrophilicity and hemocompatibility.* In comparison to hydrogels, Baymedix™ CH coatings are very stable, temperature-resistant, and low-swelling, with a limited water uptake. They can be applied to a wide variety of substrate materials to alter surface properties to your needs.

To evaluate the potential of Baymedix™ CH for your application, we will provide you with material samples and process assistance. After feasibility has been established, Bayer MaterialScience will provide quality and regulatory support to assist product development.

* Hemocompatibility tested in accordance with ISO 10993-4 in contact with human blood, using a modified in vitro Chandler loop model

KEY PRODUCT FEATURES ARE:

- **Highly hydrophilic**
- **High mechanical strength and flexibility**
- **Thermal curing (allows inner lumen coatings)**
- **Low swelling (< 25% mass water at equilibrium)**
- **Baymedix™ CH 120/CH 320 series offers reduced tackiness and higher strength, while elongation is reduced (see table on next page)**

BAYMEDIX™ WORLD-CLASS, TAILOR-MADE, POLYMER-BASED MEDICAL COATINGS:

LUBRICIOUS, HYDROPHILIC, BIOABSORBABLE, DRUG-ELUTING

PRODUCT CODES AND TECHNICAL DATA:

FORM	PRODUCT CODE	CONDITION	E-MODULUS MPA (PSI)	TENSILE STRENGTH MPA (PSI)	ELONGATION AT BREAK %
Aqueous Dispersion	Baymedix™ CH 110	dry, room temperature	2.6 (370)	25 (3600)	550
		wet, after 24h in water	2.5 (360)	18 (2600)	450
	Baymedix™ CH 120	dry, room temperature	6.0 (860)	23 (3300)	370
		wet, after 24h in water	7.2 (1000)	21 (3000)	330
Solvent Solution	Baymedix™ CH 310	dry, room temperature	2.3 (330)	25 (3600)	650
		wet, after 24h in water	2.7 (380)	27 (3900)	640
	Baymedix™ CH 320	dry, room temperature	6.0 (860)	30 (4300)	420
		wet, after 24h in water	6.5 (920)	29 (4200)	440

COATING PROCESS STEPS TO APPLY BAYMEDIX™ CH HYDROPHILIC COATINGS



1. CLEANING/ACTIVATION



2. DIP- OR SPRAY COATING PROCESS
VISCOSITY CAN BE TAILORED TO THE
PROCESS NEEDS



3. PHYSICAL DRYING
DRYING AT ROOM TEMPERATURE OR
HIGHER (TEMPERATURE FLEXIBLE)

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