KRAIBURG TPE
CUSTOM ENGINEERED TPE AND MORE

FACT SHEET

Bio-based TPE: Compounds based on Renewable Raw Materials with Adhesion to Polyamides

INDUSTRY

CONSUMER

Our Know-how – Your Advantage

- Contains renewable materials
- Bio-based content up to 63%
- Adhesion to Polyamids like PA 6, PA 6.6, PA 12
- Hardness range 40-80 ShA
- PCF reduction by up to ~33% compared to fossil-based alternatives
- Processing comparable to fossil-based TPEs
- In-process recycling possible
- Colorable
- REACH, RoHS, SVHC, EN71-3

Typical Applications

- Handles
- Function and design elements
- Caps
- Soft touch surfaces (thumb wheels, push buttons, switches)

Technical Data

	Unit	Virgin compound: TC6YCZ	RB4NBG-NTRL	RB6NBG-NTRL	RB8NBG-NTRL
Bio-content	%	-	63	63	58
Hardness	ShA	65	40	60	80
Density	g/cm³	1.200	1.050	1.150	1.130
Tensile Strength	MPa	4.7	3.0	4.0	5.0
Elong. at Break	%	420	650	400	300
PCF	$kgCO_2e/kg$	2.19	1.62	1.50	1.60
Color		natural	natural	natural	natural
Adhesion to PA6	N/mm	7.3 (D)	3.5 (D)	5.0 (D)	7.0 (D)

Dr. Tobias Brückner

Project Manager Advance Development

"With the expansion of our bio-based THERMOLAST® R portfolio to include materials with PA adhesion, we now have another answer for challenging multi-component parts in addition to PC/ABS adhesion variants. The new products show excellent adhesion values in combination with various types of polyamides. Focus is mainly on grip applications, soft touch surfaces and design elements."

TALK TO OUR EXPERTS!

KRAIBURG TPE GMBH & CO. KG - EUROPE, MIDDLE EAST, AFRICA

info@kraiburg-tpe.com

KRAIBURG TPE TECHNOLOGY (M) SDN. BHD. - ASIA PACIFIC

info-asia@kraiburg-tpe.com

KRAIBURG TPE CORPORATION - AMERICAS

info-america@kraiburg-tpe.com

Date of change: 2025/07