KRAIBURG TPE
CUSTOM ENGINEERED TPE AND MORE

FACT SHEET

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

INDUSTRY

CONSUMER

Our Know-how – Your Advantage

- Bio-based content up to 71%
- Adhesion to Polyolefins
- Hardness range 30-80 ShA (filled/unfilled), other hardnesses available on request
- PCF reduction by up to ~50% 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
- Razors
- Caps
- Soft touch surfaces (thumb wheels, push buttons, switches)

Technical Data

	Unit	Virgin compound: TF5CGT	RB30BG-NTRL	RB50BG-NTRL	RB70BG-NTRL
Bio-content	%	-	71	70	66
Hardness	ShA	50	30	50	70
Density	g/cm³	0.880	1.070	1.110	1.110
Tensile Strength	MPa	7.5	4.0	6.0	5.0
Elong. at Break	%	800	750	700	600
PCF	$kgCO_2e/kg$	2.54	1.03	0.98	0.99
Color		translucent	natural	natural	natural
Spiral Flow, 200°C	cm	-	90	88	69

Dr. Tobias Brückner

Project Manager Advance Development

"With our bio-based TPEs, we are closing a gap in our product portfolio and continue our path towards more sustainable TPEs. The materials offer sustainable solutions whilst maintaining known performance and offering significant reductions of the product carbon footprint. We are looking forward to projects with our new products, supporting the transition from fossil-based to more sustainable raw materials."

TALK TO OUR EXPERTS!

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