Transparency meets flexibility!

Ultramid[®] F Balance – the transparent and flexible PA



Set a clear sign

with Ultramid[®] F Balance

34 % Bio-based Carbon*

> **66 %** Fossil Carbon

Main properties of Ultramid[®] F Balance

- Based partially on renewable sources
- High transparency level
- Excellent mechanical performance
- Low density
- Good stability against chemicals
- Good adhesion to TPU

















The transparent and flexible PA

Ultramid[®] F Balance

Injection molding grades

Characteristic	Test method	Unit	Ultramid [®] F3S Balance General purpose	Ultramid [®] F3Z Balance High impact	
MVR 275 °C / 5kg	ISO 1133	cm ³ /10	132	11	
Density	ISO 1183	g/cm ³	1058	1027	
Tensile modulus (dry/cond.)	ISO 527	MPa	1409 / 483	996 / 448	
Yield stress (dry/cond.)	ISO 527	MPa	43 / 27	29 / 22	
Yield strain (dry/cond.)	ISO 527	%	4.2 / 27	4.3 / 27	
Elongation at break (dry/cond.)	ISO 527	%	320 / 330	200 / 250	
Charpy unnotched (dry/cond.)	ISO 179/1eU	kJ/m²	NB / NB	NB / NB	
Charpy notched (dry/cond.)	ISO 179/1eA	kJ/m ²	6 / 90	106 / NB	
Charpy notched (-30 °C) (dry/cond.)	ISO 179/1eA	kJ/m²	6/9	26 / 28	
Share bio-based feedstock		%	34	17	
Transparent at 2mm			Yes	No	

Key properties

	Ultramid® F Balance	Ultramid [®] Vision B3K	PA12	Styrenics (e.g. MABS)	PC
Toughness (RT)*	++	+	++	0	+
Optical properties**	+	0	+	++	++
Density	+	0	++	0	-
Media resistance	+	+	+	-	-
Heat distortion temperature	-	+	+	0	+
Based on renewables	+	-	-	-	-

* Especially Ultramid® F3Z Balance ** Especially Ultramid® F3S Balance

Potential applications in appliances, sports & leisure, furniture as well as transportation:

Appliance housings & parts, viewing windows, flexible parts, level indicators, pencil housings, sport articles and many more.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (September 2020)

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