

Typical Properties of Biodegradable M·VERA® Injection Moulding Compounds

	Unit	M·VERA® GP1005 (B0001) ^a	M·VERA® GP1012 (B0065) ^a	M·VERA® GP1015 (B0071)	M·VERA® GP1018 (B0085) ^a	M·VERA® GP1022 (B0132) ^a	M·VERA® GP1025 (B0147) ^a	M·VERA® GP1039 (B0206) ^a	M·VERA® GP1045 (B0217) ^a
Food contact approval EU 10/2011	-	√ ^c	√ ^{kc}	√ ^c	√ ^c	√ ^{kc}	√ ^c	-	√ ^{kc}
Certificates	-	-	OK biodegradable SOIL; OK compost HOME	OK compost INDUSTRIAL	OK compost INDUSTRIAL	OK compost INDUSTRIAL ^l	OK compost INDUSTRIAL	OK compost INDUSTRIAL ^l	OK compost HOME ^b
Renewable content in the polymer	%	~50	~100	~70	~100	~50	~100	~50	~100
Density	g/cm ³	1.44	1.26	1.40	1.28	1.34	1.49	1.53	1.20
MVR (190 °C/2.16 kg)	cm ³ /10 min	12	1.8 ^e	10	12	20	11	13	10 ^e
Tensile modulus ^f	MPa	1,190	2,000	4,100	4,500	1,960	8,480	4,700	2,000
Tensile strength ^f	MPa	26	16	40	47	34	65	35	26
Tensile stress ^f	MPa	26	16	41	47	34	n. b.	35	26
Elongation at yield ^f	%	7	3	2	1.3	2.5	n. b.	1.8	3
Elongation at break ^f	%	20	6	4.7	1.3	22	1.3	2.1	3
Charpy notched impact strength ^g	kJ/m ²	3.2	3.2	3.5	1.8	n.d.	2	2	n.d.
Charpy impact strength ^g	kJ/m ²	46	16	50	9.3	n.b.	n.d.	n.d.	n.d.
HDT/B (ISO 75/B)	°C	71	104	50–115 ^h	50–115 ^h	50–115 ^h	50–115 ^h	50–115 ^h	98 ^h
Flammability (ISO 3795/DIN 75200)	mm/min	-	-	-	-	-	-	0	-

^a product in development, preliminary data ^b certification in progress ^c available on request ^d (160/2.16) ^e according ISO 527-1/-2 ^f ISO 179-1/1eA ^g depending on mould temperature and annealing process afterwards ^l certification possible
^k food contact limitations, for more informations please contact BIO-FED n.d. = not determined n.b. = not broken

The information given here is only valid for M·VERA® grades in their original packaging, sold by BIO-FED® and/or its authorized partners. If M·VERA® grades are mixed in any capacity with foreign material, beside masterbatches recommended by BIO-FED®, BIO-FED® declines any further responsibility. M·VERA® grades shall be stored in dry, closed rooms in closed packaging in original state and to be protected against direct sun. For keeping the product properties, the temperature must not exceed 50 °C at any time during transport and storage. Furthermore, the storage time must not exceed 6 months at room temperature (23 °C). Products made of M·VERA® grades have to be stored under same conditions. All M·VERA® products listed here can be colored with AF-Eco® masterbatches from AF-COLOR, also certified according to EN 13432. Please note that the use of AF-Eco® might influence the mechanical and/or optical properties of the final part.



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