

MODIFIED RICE BRAN WAX

BIO-R[®]

is a sustainable alternative to fossil-based Montana Wax, it represents a new generation of environmentally friendly, biologically sourced materials that can be used into different types of polymers or products:

- . TPU, TPE, PA, PC, PET, PBT, PLA, PVC, EPOXY
- . Biodegradable new material: PLA, PBT
- . Emulsions, Coatings, Inks, Wax Blends, Masterbatches
- . Nucleating Agents (PP, PET, PA6, PA66, PBT, PLA)

General Benefits

- . Good compatibility, internal and external lubrication
- . Enhances melt fluidity, for smoother processing
- . Reduces release force, improving demoulding efficiency
- . Outstanding thermal stability at high temperatures
- . Low volatility and minimal precipitation
- . Excellent dispersibility for fillers and pigments
- . Boosts colouring power and brightness

Characteristic	Product	Melting Point (°C)	Acid Value (mgKOH/g)	Saponification (mgKOH/g)	Appearance (2)
Oxidised RBW	BIO-R [®] 01	78 - 80	55 - 65	150 - 190	Light yellow to white ^{F/P}
	BIO-R [®] 02	78 - 80	70 - 95	160 - 200	Light yellow to white ^F
	BIO-R [®] 03	78 - 80	40 - 60	140 - 180	Light yellow ^F
	BIO-R [®] 07	78 - 80	120 - 140	160 - 200	Light yellow to white ^F
Esterified RBW	BIO-R [®] 04	78 - 80	10 - 20	100 - 130	White ^{F/P}
	BIO-R [®] 041	78 - 80	10 - 20	100 - 130	White ^{F/P}
	BIO-R [®] SL	78 - 80	28 - 33	100 - 130	White ^{F/P}
	BIO-R [®] 14	78 - 80	20 - 30	120 - 160	White ^{F/P}
Saponified RBW	BIO-R [®] 05	97 - 102	5 - 20	100 - 130	Light yellow ^{F/P}
	BIO-R [®] 53	140 - 150 ⁽¹⁾	< 5	120 - 160	Light Yellow ^P
	BIO-R [®] 301	-	< 3	-	Light yellow ^P
	BIO-R [®] 502	-	5 - 10	-	Pale yellow to white ^P
Micronized RBW	BIO-R [®] 802	78 - 80	70 - 95	160 - 200	D50: 7 - 10 µm ^{MP}
	BIO-R [®] 804	78 - 80	10 - 20	100 - 130	D50: < 7 µm ^{MP}
	BIO-R [®] 805	97 - 102	5 - 20	100 - 130	D50: < 7 µm ^{MP}
	BIO-R [®] 815	91 - 97	5 - 20	100 - 130	D50: < 7 µm ^{MP}

(1) Dropping Point. (2) Available formats: (F) Flakes (P) Powder (MP) Micronized



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