

Ecovance rf-PBAT Technical Data Sheet

● Ecovance rf-PBAT Description

- Ecovance rf-PBAT* is a biodegradable bioplastic formulated by copolymerizing 1,4-Butanediol, Adipic acid, and Terephthalic acid.
- High functional PBAT with excellent mechanical and processing properties ¹⁾ containing natural additives
(processing properties ¹⁾ :Blown processability, injection formability, T-Die extrudability).
- It meets international biodegradable certification standards.

* rf-PBAT : Reinforced PBAT

● Ecovance PBAT Physical Properties of Resin

Properties		Unit	Middle flow	Very-high flow	Test method
Density		g/cm ³	1.2~1.3	1.2~1.3	ISO 1183
Melt Viscosity (MFR*)	190°C, 2.16kg	g/10min	10~15	25~30	ISO 1133
Melt Temp.		°C	115~125	115~125	DSC
Color L/a/b		-	> 75/ < 5/ < 5	> 75/ < 5/ < 5	Color-meter
Moisture Contents		ppm	<500	<500	Karl-Fischer
Molecular Weight		Mw	60,000~100,000	50,000~90,000	GPC
		Mn	25,000~45,000	20,000~40,000	

- MFR(Melt Flow Rate) can be adjusted according to customer's request



● Ecovance rf-PBAT Physical Properties of Sheet

Properties		Unit	rf-PBAT	Test method
Tensile Strength		MPa	30~50	ASTM D638
Tear Strength	Unnotched	N/cm	>1,000	JIS K 6301
	notched	N/cm	>900	JIS K 6301
Elongation at break		%	>800	ASTM D638
Shore D hardness		-	25~35	ISO 868
Impact absorption Energy		KJ/m	6.0~6.5	Ecovance Method
OTR		cc/m ² .day (23°C,dry)	>1,000	ASTM D3985
WVTR		g/m ² .day (85% R.H)	<150	ASTM F1249

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- The data is based on prototype and may vary depending on the measurement conditions
- Packing Unit: 25kg Al/Paper Bag
- Transportation/Storage : below 45°C, Store in a cool place (relative humidity less than 50%)
- Drying : Dehumidifying dry at 75°C for 4hr
 - * Dehumidifying dry before the process if the moisture contents is more than 500ppm
 - * Keep & manage the moisture content below 500ppm
- Expiration date: 1 year when unopened, stored at room temperature (below 25°C)

