



Nature-Comp F 640

General Description

Nature-Comp F 640 compound is a bio-degradable/ compostable compound based on PBAT/ PLA blends having excellent processing and handling during extrusion as well as the bag-making process. Nature-Comp F 640 is compatible with poly-butylene adipate terephthalate, polylactic acid and other biopolymers. This gives converters great flexibility with respect to using blends of Nature-Comp F 640 with other biopolymers to cover a wide range of applications. Nature-Comp F 640 has excellent mechanical, barrier and sealing properties.

Characteristics

- Translucent
- High heat stability
- Easy processability
- High mechanical properties

Technical Data

Property	Unit	Test Method	Typical Value
Density	g/cc	ISO 1183	1.38
Melt Flow Index (190°C, 2.16 kg)	g/ 10 min	ISO 1133	3-5
Melting Point	°C	DSC	125-145
Mechanical Properties (Tested on 50-micron film)			
Tensile Strength	MPa	ISO 527	22
Elongation at break	%	ISO 527	440
Tensile Modulus	MPa	ISO 527	240
Dart Drop Test	g	ISO 7765	220
Tear Strength	mN	ISO 6383-1	1200

Processing Parameters

Nature-Comp F 640 can be processed on conventional LDPE blown film extrusion machinery.
Typical temperature profile: Barrel zones: 125-140°C, Die Head: 145°C

Packaging and Storage

Nature-Comp F 640 is recommended to be stored under a temperature of 35°C in dry conditions. To be kept away from direct sunlight. Nature-Comp F 640 material is packed in 20 kg bags.

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