Universal Selector™ by SpecialChem

Mvera™ B5002

Technical DataSheet | Supplied by BIO-FED

Polyhydroxyalkanoate. It is a compostable film grade blend resins made with Mirel biopolymer. Film properties, rheology and run bubble similar to LDPE. Possesses good dart and tear resistance, high tensile strength, shelf stable. No stable in properties.

Product Type	PHA (Polyhydroxyalkanoate)
Product Status	DISCONTINUED
Applications/ Recommended for	Extrusion > Films (blown) Extrusion > Films (cast)
Bio Based	Yes
Labels/Agency Rating	OK Compost, ASTM D6400 (Biodegradable),
Key Features	Biodegradable Compostable Tensile Strength, High Tear Strength, Good

Mvera™ B5002 Properties

Mechanical	Value & Unit	Test Condition	Test Method
Tear Strength	160 g/mil	MD	ASTM D1922
Tear Strength	650 g/mil	TD	ASTM D1922
Coefficient of Friction (COF)	0.25		ASTM D1894
Tensile Strength	25 MPa	MD	ASTM D882
Tensile Strength	22 MPa	TD	ASTM D882
Tensile Modulus	125 MPa	MD	ASTM D882

Tensile Modulus	675 MPa	TD	ASTM D882
Tensile Elongation	250 %	MD	ASTM D882
Tensile Elongation	450 %	TD	ASTM D882
Impact Strength, Dart Drop	150 g/mil		ASTM D1709

Physical	Value & Unit	Test Condition	Test Method
Specific Gravity	1.3 g/cm³		ASTM D792

Fill Analysis	Value & Unit	Test Condition	Test Method
Melt Viscosity	400 Pa.s	180°C, 100 sec^{-1}	ASTM D3835

Thermal	Value & Unit	Test Condition	Test Method
Melting Point	170 °C		
Melting Point	170 °C		

Films	Value & Unit	Test Condition	Test Method
Tensile Toughness	0.15 J	at Break, MD	ASTM D882
Tensile Toughness	0.17 J	at Break, TD	ASTM D882

Mvera™ B5002 Processing Guidelines

Extrusion	Value & Unit	Test Condition	Test Method
Suggested Max Moisture	0.08 - 0.15 %		
Low Compression Ratio	< 3		
Drying Temperature	80 °C		
Rear (solids conveying) Temperature	190 °C		
Drying Time	4 hr		
Middle (solids conveying) Temperature	165 °C		
Die Temperature	165 °C		
Front (metering) Temperature	160 °C		
Blown Film Air Ring (Blown Film)	60 °C		
Primary Casting Roll	50 - 65 °C		

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