

Metabolix Mirelâ,,ç I6003rp Biobased PHA Polymeric Modifier

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP

Material Notes:

I6003rp PHA enhances the processing and properties of recycled PVC. Offering excellent inherent miscibility in PVC to enable improved processing, I6003rp can lower torque and improve flow, while improving PVC properties such as tensile toughness, hardness, and tear resistance. I6003rp is ideal for converters who want to increase their scrap usage rate without compromising quality, and for compounders who want to upgrade the value of their recycle PVC product range. Using I6003rp enables reformulation to reduce plasticizer, modifier, and stabilizer addition while maintaining physical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Metabolix-Mirel-I6003rp-Biobased-PHA-Polymeric-Modifier.php

Physical Properties	Metric	English	Comments
Bulk Density	0.300 - 0.500 g/cc	0.0108 - 0.0181 lb/in ³	
Moisture Absorption at Equilibrium	<= 0.35 %	<= 0.35 %	Metabolix STM-012
Viscosity Test	1.5 - 2.0 cm ³ /g	1.5 - 2.0 cm ³ /g	Intrinsic Viscosity; Metabolix STM-029
Crystallinity	20 - 60 %	20 - 60 %	Metabolix STM-003

Thermal Properties	Metric	English	Comments
Melting Point	160 - 170 Â°C	320 - 338 Â°F	Metabolix STM-003
Glass Transition Temp, Tg	-15.0 - 1.00 Â°C	5.00 - 33.8 Â°F	Metabolix STM-003

Optical Properties	Metric	English	Comments
Yellow Index	35 - 45 %	35 - 45 %	ASTM E-313

Descriptive Properties	Value	Comments
Contamination	0 to 0.5 Particles/ Film	Metabolix STM-014 test
tc1/2 Crystallization	5 - 12 min.	
Total Residual Solvent	67 to 250 ppm	Metabolix STM-005 test

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