

Metabolix Mirelâ„ç P4001 Sheet Extrusion Grade Bioplastic

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic

Material Notes:

Mirelâ„ç P4001 is a general purpose, high melt strength material suitable for cast sheet extrusion. Mirelâ„ç P4001 is designed for a wide range of sheet applications including gift cards, promotional materials, indoor/outdoor signage, plant pots and plant tags. Mirelâ„ç P4001 can be processed on conventional extrusion equipment with either an up-stack or down-stack roll configuration.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Metabolix-Mirel-P4001-Sheet-Extrusion-Grade-Bioplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Viscosity	1200 cP @Shear Rate 100 1/s, Temperature 180 Â°C	1200 cP @Shear Rate 100 1/s, Temperature 356 Â°F	Melt

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	5 %	5 %	ASTM D638
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790 A
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256 A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C	230 Â°F	ASTM D648 B
Deflection Temperature at 1.8 MPa (264 psi)	57.0 Â°C	135 Â°F	ASTM D648 B
Vicat Softening Point	133 Â°C	271 Â°F	ASTM 1525 B10

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	175 Â°C	347 Â°F	Reverse Temperature Profile
Middle Barrel Temperature	170 Â°C	338 Â°F	
Front Barrel Temperature	165 Â°C	329 Â°F	
Die Temperature	165 Â°C	329 Â°F	Center
	165 Â°C	329 Â°F	Edge Zones

Melt Temperature Processing Properties	165 - 170 Â°C Metric	329 - 338 Â°F English	Comments
Drying Temperature	80.0 Â°C @Time 14400 sec	176 Â°F @Time 4.00 hour	Desiccant

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China