Symbios® 4102

Polypropylene

Braskem

Message:

Braskem Symbios 4102 is a medium melt flow rate terpolymer, designed for use as a heat sealing layer on biorented films (BOPP), with heat seal temperature below 120°C on treated face. This product does not have slip and anti-blocking agents so its indicated for customized formularization. This product is appropriate for metallizing processes.

General Information			
Features	Medium Flow Terpolymer		
Uses	Bi-axially Oriented Film Laminates		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Coextruded Film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.902	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	25.0	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	700	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	30	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 30 µm, Blown Film	395	MPa	
1% Secant, TD : 30 µm, Blown Film	395	MPa	
Tensile Strength			ASTM D882
MD : Yield,30 µm, Blown Film	18.0	MPa	
TD : Yield,30 µm, Blown Film	16.0	MPa	
Tensile Elongation			ASTM D882
MD : Yield, 30 µm, Blown Film	16	%	
TD : Yield, 30 µm, Blown Film	13	%	
Seal Initiation Temperature (30 µm, Blown Film)	99.0	°C	
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact			ASTM D256
-20°C	20	J/m	
23°C	50	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	48.0	°C	
1.8 MPa, Unannealed	74.0	°C	
Vicat Softening Temperature	121	°C	ASTM D1525 [1]
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 µm, Blown Film)	96		ASTM D2457
Haze (30.0 µm, Blown Film)	0.40	%	ASTM D1003
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China