

Symbios® 3102

Polypropylene

Braskem

Message:

Braskem Symbios 3102 is a medium melt flow rate terpolymer, designed for use as a heat sealing layer on cast film coextrusion, with heat seal temperature below 110°C on non-treated face. This product does not have slip and anti-blocking agents so it is indicated for customized formularization. This product is appropriate for metalizing and lamination processes.

Applications:

Sealing layer for cast film coextrusion; Adequate for lamination and metallization processes.

General Information			
Features	Good Heat Seal		
	Medium Flow		
	Terpolymer		
Uses	Cast Film		
	Laminates		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Cast Film		
	Coextrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	26.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	13	%	ASTM D638
Flexural Modulus	800	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	360	MPa	
1% Secant, TD : 30 µm, Blown Film	410	MPa	
Tensile Strength			ASTM D882
MD : Yield,30 µm, Blown Film	17.0	MPa	

TD : Yield,30 μm, Blown Film	17.0	MPa	
Tensile Elongation			ASTM D882
MD : Yield, 30 μm, Blown Film	30	%	
TD : Yield, 30 μm, Blown Film	13	%	
Seal Initiation Temperature (30 μm, Blown Film)	101	°C	Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	20	J/m	
23°C, Injection Molded	45	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Injection Molded	79.0	°C	
1.8 MPa, Unannealed, Injection Molded	49.0	°C	
Vicat Softening Temperature	124	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 μm, Blown Film)	100		ASTM D2457
Haze (30.0 μm, Blown Film)	0.30	%	ASTM D1003
NOTE			
1.	Loading 1 (10 N)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

