


Datasheet
 Review 4 (Dec / 17)

Polypropylene Symbios 4102

Description:

Terpolymer

Symbios 4102 is a medium melt flow rate terpolymer, designed for use as a heat sealing layer on biooriented films (BOPP), with heat seal temperature below 120°C on 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 processes.

Applications:

Heat Sealable Bioriented and Conventional Film with Medium Sealing Temperature , Coextrusion of Bioriented and Conventional Film, Suitable for use in lamination process., Modifier Properties of Conventional Films

Processes:

Coextrusion Films, BOPP Film

Control Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	D 1238	g/10 min	5.5

Typical Properties^a

Feature	Method	Units	Values
Density	D 792	g/cm ³	0.902
Flexural Modulus - 1% Secant	D 790	MPa	700
Tensile Strength at Yield	D 638	MPa	25
Tensile Elongation at Yield	D 638	%	13
Rockwell Hardness (R Scale)	D 785	-	73
Notched Izod Impact Strength at 23°C	D 256	J/m	55
Notched Izod Impact Strength at -20°C	D 256	J/m	20
Deflection Temperature under Load at 0.455 MPa	D 648	°C	74
Deflection Temperature under Load at 1.820 MPa	D 648	°C	48
Vicat Softening Temperature at 10 N	D 1525	°C	121

a) Injection molded specimen according to ASTM D 4101. NB = No Break.

Film Properties

Feature	Method	Units	Values
Secant Modulus 1% (MD/TD)	D 882	MPa	395/395
Tensile Strength at Yield (MD/TD)	D 882	MPa	18/16
Elongation at Yield (MD/TD)	D 882	%	16/13
Haze	D 1003	%	0.4
Gloss 45°	D 2457	-	96
Sealing Initial Temperature	Braskem Method	°C	99

3) 30 µm thickness film, processed in a 50 mm screw diameter extruder with blow up ratio of 1,3:1 (MD=Machine Direction and TD=Transversal Direction)

Final Remarks

- The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
- In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS: 25895-47-

- 0.
5. The mentioned values in this report can be changed at any moment without Braskem previous communication.
6. For regulatory information concerning the product, please consult the Regulatory Information Sheet or contact our Technical Assistance Area.

