

AMPLIFY™ IO 3801B

Functional Polymer
The Dow Chemical Company

Message:

AMPLIFY™ IO 3801B Ethylene Acrylic Acid Ionomer is designed for blown and cast film coextrusion for flexible packaging applications. It provides excellent sealability in coextrusions with nylon and other film structures with low blocking.
For Food and Specialty Applications
Excellent sealant for use in blown and cast film coextrusions
Complies with:
U.S. FDA 21 CFR 177.1310(b)
Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (2000 ppm)		
Agency Ratings	FDA 21 CFR 177.1310 (b)		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
	cast film		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Ion Type	Sodium (Na)		

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Tensile Strength ¹			ASTM D882
MD: Yield, 51 µm	15.2	MPa	ASTM D882
TD: Yield, 51 µm	12.5	MPa	ASTM D882
MD: Fracture, 51 µm	33.6	MPa	ASTM D882
TD: Fracture, 51 µm	34.3	MPa	ASTM D882
Tensile Elongation ²			ASTM D882
MD: Fracture, 51 µm	280	%	ASTM D882
TD: Fracture, 51 µm	400	%	ASTM D882

Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	95.0	°C	Internal method

Extrusion instructions			
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吹塑薄膜的制造条件:用于处理此树脂的设备应由耐腐蚀材料制成.建议模具和适配器采用不锈钢和/或双面镀铬或镀镍.

螺杆尺寸:A 和 B = 2.5 英寸 (64 mm);C = 2 英寸 (51 mm);30:1 L/D/尺寸

螺杆类型:A= HS;B = DSB II;C = SFSM

模具间隙:70 密尔 (1. 78 mm)

熔体温度:A 和 B = 420°F (216°C),C = 470°F (243°C)

输出:模具周长的 10 磅/小时/英寸

模具直径:8 英寸

放大比:2.5:1

螺杆速度:45 rpm

冷冻线高度:30 分钟 (762 mm)

NOTE	
1.	The monolayer film data showed no resistance to caking.
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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

