

AMPLIFY™ IO 3801

Functional Polymer
The Dow Chemical Company

Message:

AMPLIFY™IO 3801 ethylene acrylic acid ionic bond polymer is used for blow molding and co-extrusion processing of cast films, and is used in soft packaging applications. When co-extruding with nylon and other films, this product can provide excellent sealing performance.
for food packaging and special packaging
Excellent sealant in blow molding and cast film co-extrusion processing
Comply with the following regulations:
U.S. Food and Drug Administration Regulation 21 CFR 177.1310 (B)
EU, No 10/2011
Please check the regulations for complete details

General Information			
Agency Ratings	FDA 21 CFR 177.1310 (b)		
	Europe No 10/2011		
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
Elmendorf Tear Strength ³			ASTM D1922
MD : 51 µm	20	g	ASTM D1922
TD : 51 µm	42	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	93.0	°C	ASTM D1525
Melting Temperature (DSC)	95.0	°C	Internal method

Optical	Nominal Value	Unit	Test Method
Gloss ⁴ (20°, 50.8 μm)	80		ASTM D2457
Haze ⁵ (50.8 μm)	3.2	%	ASTM D1003

Extrusion instructions

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 = DSBII,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. Single-layer film data.
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4. Single-layer film data.
5. Single-layer film data.

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