

AMPLIFY™ IO 3701

Functional Polymer

The Dow Chemical Company

Message:

AMPLIFY™ IO 3701 Ethylene Acrylic Acid Ionomer is designed for blown, cast, and extrusion coating for flexible packaging applications. It provides excellent sealability in coextrusions with nylon and other film structures.

For Food and Specialty Applications

Excellent Sealant for use in blown, cast film, and extrusion coating

Complies with:

U.S. FDA 21 CFR 177.1310 (b)

EU, No 10/2011

Consult 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
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Specific Gravity	0.940	g/cm ³	ASTM D792
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Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.2	g/10 min	ASTM D1238
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Thermal

Nominal Value	Unit	Test Method
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Vicat Softening Temperature	91.0	°C	ASTM D1525
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Melting Temperature (DSC)	95.0	°C	Internal method
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Extrusion

Nominal Value	Unit	Test Method
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Melt Temperature	288	°C	
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Neck-in (288°C, 25.4 µm)	47.8	mm	Internal method
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Maximum production line speed	7.6	m/sec	Internal method
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Minimum coating thickness		µm	Internal method
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Minimum coating weight	6.5	g/m ²	Internal method
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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:3.5 英寸 (89 mm);30:1 L/D

螺杆类型:带 Maddock Mixer 的单跨型

模具间隙:20 密尔 (0.5 mm)

熔体温度:550°F (288°C)

输出:280 磅/小时

螺杆速度:90 rpm

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