

## AMPLIFY<sup>™</sup> IO 3701 Functional Polymer

Overview

AMPLIFY™ IO 3701 Ethylene Acrylic Acid lonomer 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

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Complies with:
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- U.S. FDA 21 CFR 177.1310 (b)
- Europe EU-Directive 2002/72/EC

Consult the regulations for complete details.

Additive • Antiblock: No		Slip: No		Processing Aid: No		
Physical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density		0.940	g/cm³	0.940	g/cm³	ASTM D792
Melt Index (19	00°C/2.16 kg)	5.2	g/10 min	5.2	g/10 min	ASTM D1238
Thermal		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Vicat Softenin	g Temperature	196	°F	91.0	°C	ASTM D1525
Melting Tempe	erature (DSC)	203	°F	95.0	°C	Dow Method
Extrusion		Nominal Value	(English)	Nominal Value	(SI)	Test Method

Nominal Value	(English)	Nominal Value	(SI)	Test Method
550	°F	288	°C	
25.0	ft/sec	7.6	m/sec	Dow Method
< 0.29	mil	< 7.4	μm	Dow Method
4.0	lb/ream	6.5	g/m²	Dow Method
1.9	in	47.8	mm	Dow Method
-	550 25.0 < 0.29 4.0	550 °F 25.0 ft/sec < 0.29 mil 4.0 lb/ream	550         °F         288           25.0         ft/sec         7.6           < 0.29	25.0         ft/sec         7.6         m/sec           < 0.29

## Extrusion Notes

Fabrication Conditions For Extrusion Coating:

Equipment used to process this resin should be constructed of corrosion resistant materials. Dies and adapters are recommended to be stainless steels and/or duplex chrome or nickel plated.

• Screw Size: 3.5 in (89 mm); 30:1 L/D

- · Screw Type: Single Flight with Maddock Mixer
- Die Gap: 20 mil (0.5 mm)
- Melt Temperature: 550°F (288°C)
- Output: 280 lb/hr
- Screw Speed: 90 rpm

## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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