AMPLIFY™ IO 3702
Functional Polymer

Overview

AMPLIFY™ IO 3702 Ethylene Acrylic Acid Ionomer is 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 (c)
- 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 (190°C/2.16 kg)	14	g/10 min	14	g/10 min	ASTM D1238
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Melting Temperature (DSC)	198	°F	92.2	°C	Dow Method

Extrusion	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Melt Temperature	450	°F	232	°C	
Maximum Line Speed	> 25.0	ft/sec	> 7.6	m/sec	Dow Method
Minimum Coating Thickness	< 0.29	mil	< 7.4	µm	Dow Method
Minimum Coating Weight	3.0	lb/ream	4.9	g/m²	Dow Method
Neck-in (550°F (288°C), 1.0 mil (25.4 µm))	4.3	in	108.0	mm	Dow Method

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: 450°F (232°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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