

PRIMACOR™ IO 3701

Description

PRIMACOR™ IO 3701 is an ionomer of ethylene acrylic acid copolymer, and is designed for blown, cast, and extrusion coating for flexible packaging applications. PRIMACOR™ IO 3701 can provide excellent sealability in coextrusions with Nylon and other film structures.

Ion Type

- Zinc Ionomer.

Typical Properties¹⁾

		Nominal Values		Test Method
Physical	Density	0.940 g/cm ³	0.940 g/cm ³	ASTM D792
	Melt Index (2.16 kg @190°C)	5.2 g/10min	5.2 g/10min	ASTM D1238
Thermal	Vicat Softening Point	173 °F	78.3 °C	ASTM D1525
	Melting Point (DSC)	203 °F	95.0 °C	SK Method

Processing Information

		Nominal Values		Test Method
Extrusion	Melt Temperature	550 °F	288 °C	
	Maximum Line Speed	25.0 ft/sec	7.6 m/sec	SK Method
	Maximum Coating Thickness	< 0.29 mil	< 7.4 µm	SK Method
	Minimum Coating Weight	4.0 lb/ream	6.5 g/m ²	SK Method
	Neck-in ²⁾	1.9 in	47.8 mm	SK Method

Fabrication Conditions for Extrusion Coating:
Equipment used to process this resin should be constructed of corrosion resistant material. Dies and adaptors are recommended to be stainless steels and/or duplex chrome and nickel plated.

Extrusion Notes

- 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 (127 kg/hr)
- Screw Speed: 90 rpm

¹⁾ Typical properties: these are not to be construed as specifications

²⁾ 550 °F (288 °C), 1.0 mil (25.4 µm)

