

PRIMACOR™ 3440

Copolymer

Introduction

PRIMACOR™ 3440 Copolymer is an ethylene acrylic acid copolymer suitable for extrusion coating and extrusion lamination applications.

PRIMACOR™ 3440 Copolymer exhibits:

- Excellent adhesion to paper, paperboard, metals and polyethylenes
- Excellent hot-tack and sealability
- Excellent toughness
- Excellent stress crack resistance
- · Insensitivity to moisture
- Designed specifically for high line speeds

Applications:

- Flexible packaging laminates
- Liquid packaging board laminates

Complies with:

• US. FDA 21 CFR 177.1310(a)(1)

• EU. No 10/2011

Additives:

Antiblock: No

• Slip: No

Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
Resin Properties	Density	0.938 g/cm ³	0.938 g/cm ³	ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	11 g/10min	11 g/10min	ASTM D1238 ISO 1133
	Comonomer Content ¹	9.7 %	9.7 %	SK Method
	Vicat Softening Temperature	178 °F	81.1 °C	ASTM D1525 ISO 306/A
	Melting Temperature (DSC)	208 °F	97.8 °C	SK Method
Film Properties	Seal Initiation Temperature ²	185 °F	85.0 °C	SK Method
	Water Vapor Transmission Rate 100°F (38°C), 90% RH	1.1 g·mil/100in²/atm/24hr	0.41 g·mm/m²/atm/24hr	DIN 53122/2



		Nominal Value (English)	Nominal Value (SI)	Test Method
Mechani <mark>ca</mark> l Properties	Tensile Strength at Yield (Compression Molded)	1150 psi	7.93 Mpa	ASTM D638 ISO 527-2
	Tensile Strength at Break (Compression Molded)	2550 psi	17.6 Mpa	ASTM D638 ISO 527-2
	Tensile Elongation at Break (Compression Molded)	600 %	600 %	ASTM D638 ISO 527-2
Extrusion	Melt Temperature	500-554 °F	260-290 °C	-
	Minimum Coating Thickness	0.40 mil	10 µm	SK Method
	Minimum Coating Weight	6.0 lb/ream	9.8 g/m ²	SK Method
	Neck-in (550°F (288°C), 1.0 mil (25.4 μm))	2.6 in	66.0 mm	SK Method
Extrusion Condition ³	 Screw Size: 3.5 in. (89 mm); 30:1 L/D Die Gap: 20 mil (0.508 mm) Die: 30 inch (762 mm) die deckled to 24 inches (609.6 mm) Melt Temperature: 550 °F (288 °C) Output: 250 lb/hr (113.4 kg/hr) Air Gap: 6 in. (152 mm) 			

¹ Comonomer content measured by a SK proprietary method that has equivalent accuracy as compared to ASTM D 4094.

² 25g/m² coatings at 290°C set temperature.

Notes

These are *typical values* and are *not be construed as specifications*. The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.

For additional sales, order and technical assistance

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³ 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.