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PRIMACOR™ 3002

Copolymer

Introduction

PRIMACOR™ 3002 Copolymer is an ethylene acrylic acid copolymer which has been specifically designed by SK for use as an adhesive or sealant layer in extrusion coating and extrusion lamination.

PRIMACOR™ 3002 Copolymer exhibits:

- Excellent draw-down and edge stability
- Excellent organoleptic properties
- Excellent toughness and strength
- Outstanding environmental stress crack and product resistance
- Excellent hot-tack and sealability
- Adhesion to paper, paperboard, metals and polyethylenes
- Insensitivity to moisture

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	0.936 g/cm^3	0.936 g/cm^3	ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	9.8 g/10min	9.8 g/10min	ASTM D1238 ISO 1133
	Comonomer Content[1]	8.0 %	8.0 %	SK Method
	Vicat Softening Temperature	180 °F	82.2 °C	ASTM D1525 ISO 306/A
	Melting Temperature (DSC)	212 °F	100 °C	SK Method
Film Properties	Seal Initiation Temperature[2]	185 °F	85.0 °C	SK Method
	Water Vapor Transmission Rate[3] 100°F (38°C), 90% RH	1.0 g·mil/100in^2/atm/24hr	0.40 g·mm/m^2/atm/24hr	DIN 53122/2

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		Nominal Value (English)	Nominal Value (SI)	Test Method
Mechanical Properties	Tensile Modulus - 2% Secant (Compression Molded)	16000 psi	110 MPa	ASTM D638 ISO 527-2
	Tensile Strength at Yield (Compression Molded)	1020 psi	7.00 Mpa	ASTM D638 ISO 527-2
	Tensile Strength at Break (Compression Molded)	2760 psi	19.0 Mpa	ASTM D638 ISO 527-2
	Tensile Elongation at Break (Compression Molded)	570 %	570 %	ASTM D638 ISO 527-2
	Durometer Hardness (Shore D) (Compression Molded)	53	53	ASTM D2240 ISO 868
Extrusion	Melt Temperature	500-554 °F	260-290 °C	-
	Minimum Coating Weight (554°F (290°C))	3.7 lb/ream	6.0 g/m^2	SK Method
	Neck-in[4] (554°F (290°C))	1.4 in	35.6 mm	SK Method

[1] Comonomer content measured by a SK proprietary method that has equivalent accuracy as compared to ASTM D 4094.
[2] 25 g/m^2 coatings at 290°C set temperature.
[3] Divide by coating weight in g/m^2 to obtain actual WVTR.
[4] at 100 m/min, 25 g/m^2 coatings

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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