PRIMACOR™ 5990I

Copolymer

Introduction

PRIMACOR™ 5990I Copolymer is an ethylene acrylic acid copolymer with excellent adhesion to metallic, cellulosic, glass and other substrates. In dispersion form, it is a versatile binder for nonwoven fibers, including polypropylene, polyester, glass, nylon, and others.

PRIMACOR™ 5990I Copolymer exhibits:

- Dispersible in aqueous amines and alkali
- "Clean" dispersion requires no salts, surfactants or solvents
- Dispersions use existing waterbourne application equipment
- Low heat seal temperature, high hot tack
- High gloss, excellent clarity
- Excellent water, grease and oil resistance
- Low odor

Applications:

- Adhesives
- Laminations
- Foil priming
- Heat sealing
- Nonwoven binding
- Metal/paper coating

Complies with:

- US. FDA 21 CFR 177.1310(a)(2)

Additives:

- Antiblock: No
- Slip: No

Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
Resin Properties	Density	0.955 g/cm^3	0.955 g/cm^3	ASTM D792 ISO 1183
	Melt Index (2.16 kg @125°C)[1] Melt Index (2.16 kg @190°C)[2]	65 g/10min 1300 g/10min	65 g/10min 1300 g/10min	ASTM D1238 ISO 1133
	Comonomer Content[3]	20.0 %	20.0 %	SK Method
	Vicat Softening Temperature	104 °F	40.0 °C	ASTM D1525 ISO 306
	Melting Temperature (DSC)	167 °F	75.0 °C	SK Method

		Nominal Value (English)	Nominal Value (SI)	Test Method
Mechanical Properties	Tensile Modulus-2% Secant (Compression Molded)	3200 psi	22.1 MPa	ASTM D638 ISO 527-2
	Tensile Strength at Break (Compression Molded)	900 psi	6.21 MPa	ASTM D638 ISO 527-2
	Tensile Elongation at Break (Compression Molded)	350 %	350 %	ASTM D638 ISO 527-2

[1] As measured at the time of production.
[2] Melt Index values are correlated from Melt Flow Rate (ASTM D 1238 conditions of 125°C/2.16 kg).
[3] Comonomer content measured by a SK proprietary method that has equivalent accuracy as compared to ASTM D 4094.

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

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.