

PRIMACOR™ 5990I Copolymer

Overview

- · Low heat seal temperature, high hot tack
- · High gloss, excellent clarity
- · Excellent water, grease and oil resistance
- Complies with U.S. FDA 21 CFR 177.1310 (c).

PRIMACOR™ 5990I 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.

Applications:

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

Outstanding Properties:

- · Dispersible in aqueous amines and alkali
- "Clean" dispersion requires no salts, surfactants or solvents
- · Dispersions use existing waterbourne application equipment
- · High hot tack
- Low odor

Nominal Value (English)	Nominal Value (SI)	Test Method
0.955 g/cm³ 0.955 g/cm³		ASTM D792 ISO 1183
		ISO 1133
1300 g/10 min 1300 g/10 min		ASTM D1238 1
65 g/10 min 65 g/10 min		ASTM D1238 2
20.0 % 20.0 %		Dow Method ³
Nominal Value (English)	Nominal Value (SI)	Test Method
3200 psi	22.1 MPa	ASTM D638 ISO 527-2
900 psi	6.21 MPa	ASTM D638 ISO 527-2
		ASTM D638 ISO 527-2
350 %	350 %	
Nominal Value (English)	Nominal Value (SI)	Test Method
104 °F	40.0 °C	ASTM D1525 ISO 306
167 °F	75.0 °C	Dow Method
	0.955 g/cm³ 1300 g/10 min 65 g/10 min 20.0 % Nominal Value (English) 3200 psi 900 psi 350 % Nominal Value (English) 104 °F	0.955 g/cm³ 0.955 g/cm³ 1300 g/10 min 65 g/10 min 20.0 % 20.0 % Nominal Value (English) 3200 psi 22.1 MPa 350 % 350 % Nominal Value (SI) Nominal Value (SI) 104 °F 40.0 °C

Extrusion Notes

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.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

- ¹ Melt Index values are correlated from Melt Flow Rate (ASTM D 1238 conditions of 125°C/2.16kg).
- ² As measured at the time of production.

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³ Comonomer content measured by a DOW proprietary method that has equivalent accuracy as compared to ASTM D 4094.

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