



PRIMACOR™ 5980I

Copolymer

Overview

- Low heat seal temperature, high hot tack
- High gloss, excellent clarity
- Excellent grease and oil resistance, water hold-out and excellent product resistance for flexible packaging applications
- Complies with U.S. FDA 21 CFR 177.1310 (c).
Consult the regulations for complete details.

PRIMACOR™ 5980I is an ethylene acrylic acid copolymer with excellent adhesion to metallic, cellulosic, glass and other polar substrates. In dispersion form, it can be used effectively as a foil primer or laminating adhesive for polyethylene and metallized substrates.

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.958 g/cm ³	0.958 g/cm ³	ASTM D792 ISO 1183
Melt Index			ISO 1133
190°C/2.16 kg	300 g/10 min	300 g/10 min	ASTM D1238 ¹
125°C/2.16 kg	14 g/10 min	14 g/10 min	ASTM D1238 ²
Comonomer Content	20.5 %	20.5 %	Dow Method ³
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 2% Secant (Compression Molded)	4800 psi	33.1 MPa	ASTM D638 ISO 527-2
Tensile Strength (Break, Compression Molded)	1400 psi	9.65 MPa	ASTM D638 ISO 527-2
Tensile Elongation			ASTM D638 ISO 527-2
Break, Compression Molded	390 %	390 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	50	50	ASTM D2240 ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	108 °F	42.2 °C	ASTM D1525 ISO 306
Melting Temperature (DSC)	171 °F	77.2 °C	Dow Method

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.

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

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