DuPont Bynel® 2002 Acid-Modified Ethylene Terpolymer Adhesive Resin

Category : Polymer , Thermoplastic , EMAAA Terpolymer

Material Notes:

Bynel® Series 2000 resins are acid-modified ethylene terpolymers with medium to high acid comonomer contents. They contain a temperature stable ester that makes them functional in high-temperature coextrusions. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.Applications: Bynel® Series 2000 resins can be used in a variety of coextrusion coating and laminating applications; for example, laminating metallized films to printed films. They can also be used in thermal lamination processes bonding to a variety of metal, plastic, and paper surfaces. Bynel® 2002, 2022, E403, and 20E482 adhere to a wide variety of materials. They are most often used in coextrusions with PE, EVA, polyamide, and ionomer. They are also useful in adhering to paper, foil, and printed films. Bynel® 2002 and 2022 are designed for low melt temperature coextrusion coating and laminating applications. Bynel® E403 has a melt index suitable for blown or cast film. The primary difference between Bynel® 2002, 2022, and E403 is their rheology. Bynel® 2014 adheres to a wide variety of materials. It is most often used to bond PP films to foil or metallized films. It is also useful in adhering to paper, PE, EVA, PP, and printed films. It has good draw properties and low neck-in, making it especially suited for processes such as coextrusion coating and laminating. It can also be used in film/sheet and tubing. Applications for which Bynel® 2014 is a good resin choice are snack packaging and non-retorted lidding structures in which metal barriers are combined with reverse-printed films.Physical properties of Bynel® Series 2000 resins are typical of ethylene/acrylate copolymer resins with similar density and melt index values. The rheology characteristics of each grade are different, so one may be better suited than the others to a particular extrusion process. Information provided by DuPont Packaging Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Bynel-2002-Acid-Modified-Ethylene-Terpolymer-Adhesive-Resin.php

Physical Properties	Metric	English	Comments
Density	0.931 g/cc	0.0336 lb/in³	ASTM D792
Viscosity	600000 cP @Shear Rate 50.0 1/s, Temperature 190 °C	600000 cP @Shear Rate 50.0 1/s, Temperature 374 °F	estimated from log-log graph
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 190 °C	10 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Thermal Properties	Metric	English	Comments
Melting Point	66.0 °C	151 °F	Freezing point via DSC/ASTM D3418
	91.0 °C	196 °F	Melting point via DSC/ASTM D3418
Vicat Softening Point	60.0 °C	140 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	275 °C	527 °F	Extruder forward zone and adapter.

Processing Properties	Metric	English	Comments
Nozzle Temperature	215 °C	419 °F	Die

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