

DuPont Bynel® 50E571 Anhydride-Modified Polypropylene Adhesive Resin

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Bynel® Series 5000 resins are anhydride-modified polypropylene. Bynel® 50E561 and 50E571 are based on polypropylene random copolymers. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polypropylene (PP) resins. Applications: Bynel® Series 5000 resins adhere to a variety of materials. They are most often used to adhere to PP, EVOH, and polyamide. These resins are designed for applications in which EVOH or polyamide is melt coextruded with PP or PP copolymers. Bynel® 50E561 and 50E571 can be used in coextrusion processes including blown film, melt and solid phase thermoforming, and cast film or sheet. Bynel® 50E571 can also be used in extrusion blow molding. Bynel® 50E561 and 50E571 provide outstanding adhesion to EVOH. Physical properties of Bynel® Series 5000 resins are typical of polypropylene 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-50E571-Anhydride-Modified-Polypropylene-Adhesive-Resin.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in ³	ASTM D792
Viscosity	1.50e+6 cP @Shear Rate 50.0 1/s, Temperature 190 °C	1.50e+6 cP @Shear Rate 50.0 1/s, Temperature 374 °F	estimated from log-log graph
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Thermal Properties	Metric	English	Comments
Melting Point	101 °C	214 °F	Freezing point via DSC/ASTM D3418
	156 °C	313 °F	Melting point via DSC/ASTM D3418
Vicat Softening Point	125 °C	257 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	235 °C	455 °F	Extruder forward zone and adapter for film or coating with EVA or EVOH
Nozzle Temperature	235 °C	455 °F	Die

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