

DuPont Bynel® 4206 Anhydride-Modified LDPE Adhesive Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , Anhydride-Modified Polyethylene , LDPE

Material Notes:

Bynel® Series 4200 resins are anhydride-modified, low-density polyethylene resins. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins. Applications: Bynel® Series 4200 resins are specifically designed to provide high interlayer adhesion between EVOH, polyamide, PE, ethylene copolymers, and ionomers. Applications in which the use of these resins is advantageous include: barrier bag-in-box films; large pouches for hospital, restaurant, or institutional uses; rigid containers in which PE is the structural component. In addition, with their high adhesion to ionomers, these resins are advantageous in multilayer ionomer/barrier constructions designed to package oily products. Bynel® 4208, with its low melt index, is particularly useful where better bubble stability in the blown film process or less parison sag in coextrusion blow molding is desirable. Bynel® 4288 is specifically designed for high bonding performance with EVOH in high-speed coextrusion coating or laminating applications. It can also be used in cast film applications. Physical properties of Bynel® Series 4200 resins are typical of low-density polyethylene 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-4206-Anhydride-Modified-LDPE-Adhesive-Resin.php

Physical Properties	Metric	English	Comments
Density	0.915 g/cc	0.0331 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	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Thermal Properties	Metric	English	Comments
Melting Point	90.0 °C	194 °F	Freezing point via DSC/ASTM D3418
	106 °C	223 °F	Melting point via DSC/ASTM D3418
Vicat Softening Point	83.0 °C	181 °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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