

DuPont Nucrel® 30707 Ethylene-Acrylic Acid Copolymer Resin for Film and Extrusion Coating

Category : Polymer , Film , Thermoplastic , Ethylene Acrylic Acid

Material Notes:

7 wt% Acrylic Acid. Nucrel® 30707 is an ethylene-acrylic acid copolymer resin available for use in blown/cast film and extrusion coating operations. It can be used in both extrusion and coextrusion equipment designed to process polyethylene resins. Features/Benefits: Low seal initiation temperature allows high speed packaging. Very good hot tack, seal through contamination, and heat seal strength provides strong, reliable heat seals. Balanced acid content (7% AA) provides good adhesion to both aluminum and low-density polyethylene (LDPE). In film applications, 7 melt flow index (MFI) allows for very good wetting in thermal lamination processes. In extrusion coating applications, 7 MFI provides better performance in internally deckled dies compared to higher MFI extrusion coating resins. Typical Applications: Cable shield wrap. Sealants for sachets in both food and nonfood applications. Toothpaste tubes, as a foil/LDPE tie layer. Other foil-containing pouches and sachets. Medical/pharmaceutical packaging. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Nucrel-30707-Ethylene-Acrylic-Acid-Copolymer-Resin-for-Film-and-Extrusion-Coating.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 190 °C	7.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	540 %	540 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	560 %	560 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.170 GPa	24.7 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.175 GPa	25.4 ksi	50 µm (2 mil) film; ASTM D882
Impact	13	13	J/mm Spencer Impact; ASTM D3420
Elmendorf Tear Strength, MD	6.69 g/micron	170 g/mil	50 µm (2 mil) film; ASTM D1922
Elmendorf Tear Strength, TD	6.30 g/micron	160 g/mil	50 µm (2 mil) film; ASTM D1922
Dart Drop Test	4.30 g	0.00948 lb	
Seal Strength	2000 g/25 mm	2000 g/in	seal bar 150°C.
Film Tensile Strength at Break, MD	25.5 MPa	3700 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	26.9 MPa	3900 psi	50 µm (2 mil) film; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	85.0 °C	185 °F	Freezing Point via DSC/ASTM D3418
	102 °C	216 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	84.0 °C	183 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003
Gloss	100 %	100 %	20°; ASTM D2457

Processing Properties	Metric	English	Comments
Nozzle Temperature	177 °C	351 °F	Typical Die Temp. for blown film
Melt Temperature	160 - 175 °C	320 - 347 °F	blown film equipment

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