

DuPont Nucrel® 30707SR Ethylene-Acrylic Acid Copolymer Resin for Film and Extrusion Coating (discontinued **)

Category : Polymer , Film , Thermoplastic , Ethylene Acrylic Acid

Material Notes:

7 wt% Acrylic Acid. Nucrel® 30707SR 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 vs. Nucrel® 30707: Slip additives are added to reduce the coefficient of friction of the film surface to increase operating speeds on packaging machinery. Chill roll release agents are added to enhance extrusion coating speeds by reducing tendency of the hot melt to adhere to the chill roll surface. 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-30707SR-Ethylene-Acrylic-Acid-Copolymer-Resin-for-Film-and-Extrusion-Coating-nbspdiscontinued-.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.
Hot Tack Strength	475 g/25 mm	475 g/in	seal bar 98°C; DuPont Spring Test Method
Film Tensile Strength at Break, MD	25.5 MPa	3700 psi	50 µm (2 mil) film; ASTM D882

Film Tensile Strength at Break, TD Mechanical Properties	26.9 MPa Metric	3900 psi English	50 µm (2 mil) film; ASTM D882 Comments
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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

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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