

DuPont Nucrel® 407 Ethylene-Methacrylic Acid Copolymer Resin for Extrusion Coating/Laminating

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate , Ethylene-Methyl Acrylate Copolymer, Coating Grade

Material Notes:

4 wt% Methacrylic Acid.Nucrel® 0407 is an ethylene-methacrylic acid copolymer resin available for use in conventional extrusion coating, coextrusion coating, and extrusion laminating equipment designed to process polyethylene resins.Features/Benefits vs. PE: Better adhesion to unprimed foil, paper and metallized film provides better substrate protection for improved structure reliability and barrier integrity. This product provides good adhesion to PE. Lower seal initiation temperature allows higher speed packaging. Better hot tack, sealability through contamination and heat seal strength provides stronger, more reliable heat seals.Typical Applications: Foil-containing shampoo, toothpaste, towelette, condiment and miscellaneous non-food pouches and sachets. Snack structures. Other foil, metallized film, or paper coatings as a heat seal or tie layer.Information provided by DuPont Packaging Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Nucrel-407-Ethylene-Methacrylic-Acid-Copolymer-Resin-for-Extrusion-CoatingLaminating.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
Hot Tack Strength	800 g/25 mm	800 g/in	seal bar 110°C; Packforsk method.

Thermal Properties	Metric	English	Comments
Melting Point	84.0 °C	183 °F	Freezing Point via DSC/ASTM D3418
	109 °C	228 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Nozzle Temperature	305 °C	581 °F	Typical Die Temp.
Melt Temperature	260 - 315 °C	500 - 599 °F	flat die equipment

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