

DuPont Nucrel® 903 Ethylene-Methacrylic Acid Copolymer Resin for Blown and Cast Film

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

Material Notes:

9 wt% Methacrylic Acid. Nucrel® 0903 is an ethylene-methacrylic acid copolymer resin available for use in conventional blown and cast film extrusion and coextrusion equipment designed to process polyethylene resins. Features/Benefits vs. Nucrel® 0902HC: Higher melt flow index provides easier extrusion, higher extrusion rates, and higher flow during heat sealing. The result is fewer leakers. Typical Applications: Meat, poultry, seafood, and cheese packaging; Cereal liners; Medical/pharmaceutical packaging; Powdered/granular food and non-food pouches; Carded display/skin packaging films; Edible oil, motor oil, and other liquid product pouches; Snack structures; Coextrusions with nylon or in other film structures 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-903-Ethylene-Methacrylic-Acid-Copolymer-Resin-for-Blown-and-Cast-Film.php

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

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	500 %	500 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.103 GPa	14.9 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.110 GPa	16.0 ksi	50 µm (2 mil) film; ASTM D882
Impact	24	24	J/mm Spencer Impact; ASTM D3420
Elmendorf Tear Strength, MD	5.51 g/micron	140 g/mil	50 µm (2 mil) film; ASTM D1922
Elmendorf Tear Strength, TD	7.48 g/micron	190 g/mil	50 µm (2 mil) film; ASTM D1922
Dart Drop Test	5.90 g	0.0130 lb	
Seal Strength	1400 g/25 mm	1400 g/in	seal bar 140°C.
Hot Tack Strength	1800 g/25 mm	1800 g/in	seal bar 105°C; Packforsk method.
Film Tensile Strength at Break, MD	31.7 MPa	4600 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	35.2 MPa	5110 psi	50 µm (2 mil) film; ASTM D882

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	83.0 °C Metric	181 °F English	Freezing Point via DSC/ASTM D3418 Comments
	101 °C	214 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	81.0 °C	178 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	3.5 %	3.5 %	ASTM D1003
Gloss	60 %	60 %	20°; ASTM D2457

Processing Properties	Metric	English	Comments
Nozzle Temperature	191 °C	376 °F	Typical Die Temp.
Melt Temperature	190 - 218 °C	374 - 424 °F	blown film equipment

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