

## DuPont Nucrel® 0902HC 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® 0902HC (High-Clarity) 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® 0403HC: Better adhesion to coextruded nylon for improved structure reliability and barrier integrity. Higher film strength for improved structure reliability and product protection. Lower seal initiation temperature for higher speed packaging. Better hot tack, sealability through contamination, and heat seal strength for stronger, more reliable heat seals. Better film optics for better package appearance and/or better product visibility. 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-0902HC-Ethylene-Methacrylic-Acid-Copolymer-Resin-for-Blown-and-Cast-Film.php](http://www.lookpolymers.com/polymer_DuPont-Nucrel-0902HC-Ethylene-Methacrylic-Acid-Copolymer-Resin-for-Blown-and-Cast-Film.php)

Physical Properties	Metric	English	Comments
Melt Flow	1.5 g/10 min @Load 2.16 kg, Temperature 190 °C	1.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 %	450 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	450 %	450 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.159 GPa	23.1 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.131 GPa	19.0 ksi	50 µm (2 mil) film; ASTM D882
Impact	29	29	J/mm Spencer Impact; ASTM D3420
Elmendorf Tear Strength, MD	4.72 g/micron	120 g/mil	50 µm (2 mil) film; ASTM D1922
Elmendorf Tear Strength, TD	5.12 g/micron	130 g/mil	50 µm (2 mil) film; ASTM D1922
Dart Drop	7.90 g/micron	201 g/mil	ASTM D1709B
Hot Tack Strength	1800 g/25 mm	1800 g/in	seal bar 105°C; Packforsk method.
Film Tensile Strength at Break, MD	33.1 MPa	4800 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	36.5 MPa	5290 psi	50 µm (2 mil) film; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	78.0 °C	172 °F	Freezing Point via DSC/ASTM D3418
	103 °C	217 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	81.0 °C	178 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.5 %	2.5 %	ASTM D1003
Gloss	65 %	65 %	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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China