

DuPont Nucrel® 1202HC 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:

11.5 wt% Methacrylic Acid. Nucrel® 1202HC (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® 0903HC: 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 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-1202HC-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	500 %	500 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	450 %	450 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.165 GPa	23.9 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.152 GPa	22.0 ksi	50 µm (2 mil) film; ASTM D882
Impact	27	27	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	6.69 g/micron	170 g/mil	50 µm (2 mil) film; ASTM D1922
Dart Drop Test	7.90 g	0.0174 lb	
Seal Strength	2700 g/25 mm	2700 g/in	seal bar 150°C.
Hot Tack Strength	1800 g/25 mm	1800 g/in	seal bar 105°C; Packforsk method.
Film Tensile Strength at Break, MD	38.6 MPa	5600 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	33.1 MPa	4800 psi	50 µm (2 mil) film; ASTM D882

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	81.0 °C	178 °F	Freezing Point via DSC/ASTM D3418
	99.0 °C	210 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	75.0 °C	167 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.5 %	2.5 %	ASTM D1003
Gloss	55 %	55 %	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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