

Nucrel® 30707

Ethylene Acrylic Acid Copolymer

DuPont Packaging & Industrial Polymers

Message:

DuPont™ Nucrel® 30707 is a copolymer of ethylene and acrylic acid, made with nominally 6.9 wt% acrylic acid. The resin is available for use in blown/cast film and extrusion coating operations. It can be used on both extrusion and coextrusion equipment designed to process polyethylene resins.

General Information	
Features	Low temperature heat sealability
	Good heat sealability
Uses	Sealant
	Drug packaging
	Medical packaging
Agency Ratings	FDA 21 CFR 177.1310 (a) 1
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding
	Extrusion coating
	cast film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238, ISO 1133
Acrylic Acid Content	7.0	wt%	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	84.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	102	°C	ASTM D3418, ISO 3146
Freezing Point ¹			
--	85	°C	ISO 3146
--	85	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	185	°C	
Cylinder Zone 2 Temp.	235	°C	
Cylinder Zone 3 Temp.	260	°C	
Cylinder Zone 4 Temp.	285	°C	
Cylinder Zone 5 Temp.	285	°C	
Adapter Temperature	285	°C	
Melt Temperature	< 310	°C	

Die Temperature	285	°C
Extrusion instructions		
Processing conditions for blown film:Zone 1: 135°CZone 2: 160°CZone 3: 185°CZone 4: 185°CZone 5: 185°CDie: 185°C		
NOTE		
1.	DSC	

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