

Nucrel® 30907

Ethylene Acrylic Acid Copolymer

DuPont Packaging & Industrial Polymers

Message:

DuPont™ Nucrel® 30907 is an ethylene acid copolymer resin, made nominally with 9.5% acrylic acid. The resin is available for use in conventional extrusion coating, coextrusion coating, and extrusion laminating equipment designed to process polyethylene resin. This resin may also be used in conventional blown and cast film extrusion and coextrusion equipment.

General Information	
Uses	Foil Coatings Laminate Coating application 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	0.940	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	9.5	wt%	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	77.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	98.0	°C	ASTM D3418, ISO 3146
Freezing Point ¹			
--	83	°C	ISO 3146
--	83	°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
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Extrusion instructions

Processing conditions for blown film:Zone 1: 135°CZone 2: 160°CZone 3: 185°CZone 4: 185°CZone 5: 185°C Melt Zone: <310°C Die: 185°C

NOTE

1. DSC

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