

Nucrel® 31001

Ethylene Acrylic Acid Copolymer

DuPont Packaging & Industrial Polymers

Message:

Nucrel® 31001 is a copolymer of ethylene and acrylic acid, made with nominally 9.5 wt% acrylic acid. It is available for use in blown and cast film extrusion and coextrusion equipment.

General Information	
Uses	Packaging
	Sealant
	Adhesive
Agency Ratings	FDA 21 CFR 177.1330
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding
	Extrusion
	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)	1.3	g/10 min	ASTM D1238, ISO 1133
Acrylic Acid Content	9.5	wt%	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	79.0	°C	ASTM D1525, ISO 306
Melting Temperature	99.0	°C	DSC, ISO 3146
Freezing Point			
--	80	°C	ISO 3146
--	80	°C	ASTM D3418

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	135	°C
Cylinder Zone 2 Temp.	160	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 4 Temp.	185	°C
Cylinder Zone 5 Temp.	185	°C
Adapter Temperature	185	°C
Melt Temperature	< 285	°C
Die Temperature	185	°C

Extrusion instructions

Processing conditions shown are for blown film.

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