

# Nucrel® 30705

Ethylene Acrylic Acid Copolymer

DuPont Packaging & Industrial Polymers

## Message:

Nucrel® 30705 is an ethylene-acrylic acid copolymer resin 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	
Features	Low temperature heat sealability Good heat sealability
Uses	Packaging Sealant Adhesive
Agency Ratings	FDA 21 CFR 177.1310 (a) 1
Forms	Particle
Processing Method	Lamination method Blow film Co-extrusion molding Extrusion coating cast film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ASTM D1238, ISO 1133
Acrylic Acid Content	6.2	wt%	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	107	°C	ASTM D3418, ISO 3146
Freezing Point			
--	89	°C	ISO 3146
--	89	°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	160 - 285	°C
Die Temperature	185	°C

Extrusion instructions

Max. processing temperature: 310°C Provided processing conditions are for blown film. Extrusion Coating/Lamination processing: Zone 1: 185°C Zone 2: 235°C Zone 3: 285°C Zone 4: 300°C Zone 5: 300°C Adapter: 300°C Die: 300°C

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