

# Nucrel® 0403

Ethylene Methacrylic Acid

DuPont Packaging & Industrial Polymers

## Message:

Nucrel® 0403 is a copolymer of ethylene and methacrylic acid, made with nominally 4 wt% methacrylic acid. The resin is available for use in conventional blown and cast film extrusion and coextrusion equipment designed to process polyethylene resins.

General Information	
Uses	Packaging
	Sealant
	Adhesive
Agency Ratings	FDA 21 CFR 177.1330(a)
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding
	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)	3.0	g/10 min	ASTM D1238, ISO 1133
Methacrylic Acid Content	4.0	wt%	
Freezing Point			
--	92	°C	ISO 3146
--	92	°C	ASTM D3418

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	104	°C	ASTM D3418, ISO 3146

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	< 310	°C
Die Temperature	185	°C

Extrusion instructions

Processing conditions shown are for blown film. Processing conditions for cast film/sheet: Zone 1: 160°C Zone 2: 185°C Zone 3: 210°C Zone 4: 235°C Zone 5: 235°C Adapter: 235°C Die: 235°C

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