

Nucrel® 0903

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Nucrel® 0903 is a copolymer of ethylene and methacrylic acid, made with nominally 9 wt% methacrylic acid. It can be processed in conventional extrusion equipment.

General Information			
Uses	Packaging		
	Sealant		
	Adhesive		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238, ISO 1133
Methacrylic Acid Content	9.0	wt%	
Freezing Point			
--	83	°C	ISO 3146
--	83	°C	ASTM D3418
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	81.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	101	°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°CZone 2: 185°CZone 3: 210°CZone 4: 235°CZone 5: 235°CAdapter: 235°CDie: 235°C

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