

Nucrel® 3990L

Ethylene Acrylic Acid Copolymer

DuPont Packaging & Industrial Polymers

Message:

Nucrel® 3990L is a copolymer of ethylene and acrylic acid. It is available for use in conventional extrusion coating, coextrusion coating and extrusion laminating equipment.

General Information	
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Uses	Coating Applications
	Laminates
Agency Ratings	FDA 21 CFR 177.1310 (a) 1
Processing Method	Coextrusion
	Extrusion Coating
	Laminating

Physical	Nominal Value	Unit	Test Method
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Specific Gravity	0.940	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238, ISO 1133
Acrylic Acid Content	9.5	wt%	

Thermal	Nominal Value	Unit	Test Method
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Vicat Softening Temperature	79.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	97.0	°C	ASTM D3418, ISO 3146
Freezing Point ¹			
--	78	°C	ISO 3146
--	78	°C	ASTM D3418

Extrusion	Nominal Value	Unit
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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

NOTE	
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1.	DSC
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