

Nucrel® 0411HS

Ethylene Methacrylic Acid

DuPont Packaging & Industrial Polymers

Message:

Nucrel® 0411HS is a copolymer of ethylene and methacrylic acid made with nominally 4 wt% methacrylic acid. It is available for use in conventional extrusion coating, coextrusion coating and extrusion laminating equipment designed to process polyethylene resins.

General Information			
Features	Good stripping		
	Good stability		
Uses	Packaging		
	Sealant		
	Adhesive		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ASTM D1238, ISO 1133
Methacrylic Acid Content	4.0	wt%	
Freezing Point			
--	87	°C	ISO 3146
--	87	°C	ASTM D3418
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	109	°C	ASTM D3418, ISO 3146
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	185	°C	
Cylinder Zone 2 Temp.	235	°C	
Cylinder Zone 3 Temp.	285	°C	
Cylinder Zone 4 Temp.	310	°C	
Cylinder Zone 5 Temp.	310	°C	
Adapter Temperature	310	°C	
Melt Temperature	< 315	°C	
Die Temperature	310	°C	
Extrusion instructions			
Processing conditions shown are for extrusion coating/lamination.			

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