



Nucrel® 599

DuPont Packaging & Industrial Polymers - Ethylene Methacrylic Acid

Monday, September 21, 2020

General Information

Product Description

Nucrel® 599 is a copolymer of ethylene and methacrylic acid, made with nominally 10 wt% methacrylic acid. It is inherently flexible without the need for plasticizers. The resin can be pigmented, UV-stabilized for exterior applications and painted or plated for special decorative effects.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Flexibility	• Paintable	• Platable
Agency Ratings	• FDA 21 CFR 177.1330(a)		
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.932		ASTM D792
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	450	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	450	g/10 min	ISO 1133
Methyl Acrylate Content	10.0	wt%	
Methacrylic Acid Content	10.0	wt%	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	149	°F	ASTM D1525
Vicat Softening Temperature	149	°F	ISO 306
Peak Melting Temperature	208	°F	ASTM D3418
Melting Temperature (DSC)	208	°F	ISO 3146
Freezing Point			
--	156	°F	ASTM D3418
--	156	°F	ISO 3146

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	< 455	°F

Notes

¹ Typical properties: these are not to be construed as specifications.