

DuPont Nucrel® 699 Ethylene-Methacrylic Acid Copolymer Resin

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate

Material Notes:

Nucrel® 599 is a tough, lightweight, easily processed ethylene copolymer resin. This resin 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. Typical Applications: Ink modification Adhesive component Special adhesive films Features: Higher deflection temperature Good adhesion to metals and polar substrates Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Nucrel-699-Ethylene-Methacrylic-Acid-Copolymer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Melt Index of Compound	95 g/10 min @Load 2.16 kg, Temperature 190 °C	95 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	Initial (peak) hardness; ASTM D2240
Tensile Strength at Break	15.2 MPa	2200 psi	Type IV specimen, compression molded, crosshead speed 2 in/min; ASTM D638
Elongation at Break	560 %	560 %	Type IV specimen, compression molded, crosshead speed 2 in/min; ASTM D638
Flexural Modulus	0.0683 GPa	9.91 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	491 kJ/m ²	234 ft-lb/in ²	At 23°C; ASTM D1822S
	288 kJ/m ² @Temperature -40.0 °C	137 ft-lb/in ² @Temperature -40.0 °F	ASTM D1822S

Thermal Properties	Metric	English	Comments
Melting Point	80.0 - 94.0 °C	176 - 201 °F	ASTM D3418(DSC)
Vicat Softening Point	65.0 °C	149 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	160 °C	320 °F	

Zone 3 Processing Properties	182 °C Metric	360 °F English	Comments
Zone 3	193 °C	379 °F	
Zone 4	204 °C	399 °F	
Zone 5	204 °C	399 °F	
Die Temperature	204 °C	400 °F	
Melt Temperature	149 - 232 °C	300 - 450 °F	

Descriptive Properties	Value	Comments
Methacrylic Acid Content	11 wt. %	DuPont Method

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