

DuPont Nucrel® 2940 Ethylene-Methacrylic Acid Copolymer Resin (discontinued **)

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate

Material Notes:

Nucrel® 2940 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: Heat sealable coating Base resin for color concentrates Metal coating Dispersions Paper coating Nonwoven binding Features: Good adhesion to metal, glass, cellulosic and other polar substrates May be processed into aqueous amines and alkali based dispersions Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Nucrel-2940-Ethylene-Methacrylic-Acid-Copolymer-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D792
Melt Index of Compound	395 g/10 min @Load 2.16 kg, Temperature 190 °C	395 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	Initial (peak) hardness; ASTM D2240
Tensile Strength at Break	10.5 MPa	1520 psi	Type IV specimen, compression molded, crosshead speed 2 in/min; ASTM D638
Elongation at Break	357 %	357 %	Type IV specimen, compression molded, crosshead speed 2 in/min; ASTM D638
Flexural Modulus	0.0462 GPa	6.70 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	209.3 kJ/m ²	99.59 ft-lb/in ²	At 23°C; ASTM D1822S
	9.50 kJ/m ² @Temperature -40.0 °C	4.52 ft-lb/in ² @Temperature -40.0 °F	ASTM D1822S

Thermal Properties	Metric	English	Comments
Melting Point	55.0 - 83.0 °C	131 - 181 °F	ASTM D3418(DSC)
Vicat Softening Point	48.0 °C	118 °F	Rate B; ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	160 °C	320 °F	
Zone 2	182 °C	360 °F	
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	19 wt. %	DuPont Method

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