

DuPont™ Surlyn® NWL Sodium Ionomer Resin for Blown and Cast Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Ionomer , Ionomer, Film Grade

Material Notes:

Surlyn® NWL is an ionomer resin available for use in conventional blown and cast film extrusion and coextrusion equipment designed to process polyethylene resins. Film produced from this resin is especially suited for skin packaging. Applications: Data provided by the manufacturer, DuPont Packaging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-NWL-Sodium-Ionomer-Resin-for-Blown-and-Cast-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 %	450 %	ASTM D882
Film Elongation at Break, TD	475 %	475 %	ASTM D882
Secant Modulus, MD	0.170 GPa	24.7 ksi	ASTM D882
Secant Modulus, TD	0.0450 GPa	6.53 ksi	ASTM D882
Impact	58	58	Spencer Impact in J/cm; ASTM D3420
Elmendorf Tear Strength, MD	1.30 g/micron	33.0 g/mil	
Elmendorf Tear Strength, TD	1.40 g/micron	35.6 g/mil	
Film Tensile Strength at Break, MD	26.9 MPa	3900 psi	ASTM D882
Film Tensile Strength at Break, TD	26.5 MPa	3840 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	96.0 °C	205 °F	DSC; ASTM D3418
Vicat Softening Point	72.0 °C	162 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.3 %	7.3 %	ASTM D1003

Gloss Optical Properties	55 % Metric	55 % English	20° Out: ASTM D2457 Comments
	82 %	82 %	20° In; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	204 °C	399 °F	

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