

NOVA Chemicals Novapol® LA-0424-A LDPE Foam Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Good stiffness, Moderate toughness, Easy processability Applications: Industrial packaging, Liners, Blends with LLDPE, Foam

articles Additives: Base resin Film properties are typical of blown film extruded at a blowup ratio of 2.5:1, but are dependent upon operating conditions. Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-LA-0424-A-LDPE-Foam-Resin.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D792
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.4 MPa	1510 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Tensile Strength, Yield	10.4 MPa	1510 psi	ASTM D638
Film Elongation at Break, MD	251 %	251 %	ASTM D882
Film Elongation at Break, TD	553 %	553 %	ASTM D882
Elongation at Break	538 %	538 %	ASTM D638
Flexural Modulus	0.291 GPa	42.2 ksi	at 1%; ASTM D790
Secant Modulus, MD	0.164 GPa	23.8 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.195 GPa	28.3 ksi	at 1%; ASTM D882
Impact	54.9	54.9	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	>= 0.60	>= 0.60	ASTM D1894
Elmendorf Tear Strength, MD	6.30 g/micron	160 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.30 g/micron	83.8 g/mil	ASTM D1922
Dart Drop	2.00 g/micron	50.8 g/mil	F₅₀, ASTM D1709/A
Film Tensile Strength at Break, MD	20.5 MPa	2970 psi	ASTM D882

Film Tensile Strength at Break, TD Mechanical Properties	16.5 MPa Metric	2390 psi English	ASTM D882 Comments
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Optical Properties	Metric	English	Comments
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Haze	8.6 %	8.6 %	ASTM D1003
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Gloss	54 %	54 %	at 45°; ASTM D2457
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Processing Properties	Metric	English	Comments
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Melt Temperature	170 - 190 °C	338 - 374 °F	
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Descriptive Properties	Value	Comments
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Blow Up Ratio	2:1 to 3:1	
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