NOVA Chemicals Novapol® LA-0224-A LDPE Foam Resin

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

Material Notes:

Excellent stiffness, Moderate toughness, Easy processabilityApplications: Industrial packaging, Liners, Blends with LLDPE, Foam articlesAdditives: Base resinFilm 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-0224-A-LDPE-Foam-Resin.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in³	ASTM D792
Thickness	>= 25.0 microns	>= 0.984 mil	
Melt Flow	2.3 g/10 min @Load 2.16 kg, Temperature 190 °C	2.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.2 MPa	1620 psi	ASTM D882
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	ASTM D882
Tensile Strength, Yield	10.3 MPa	1490 psi	ASTM D638
Film Elongation at Break, MD	186 %	186 %	ASTM D882
Film Elongation at Break, TD	513 %	513 %	ASTM D882
Elongation at Break	600 %	600 %	ASTM D638
Flexural Modulus	0.310 GPa	45.0 ksi	at 1%; ASTM D790
Secant Modulus, MD	0.193 GPa	28.0 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.513 GPa	74.4 ksi	at 1%; ASTM D882
Impact	43.2	43.2	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	>= 0.60	>= 0.60	ASTM D1894
Elmendorf Tear Strength, MD	10.5 g/micron	267 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.90 g/micron	99.1 g/mil	ASTM D1922
Dart Drop	2.40 g/micron	61.0 g/mil	F₅₀, ASTM D1709/A

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	27.2 MPa	3950 psi	ASTM D882
Film Tensile Strength at Break, TD	17.8 MPa	2580 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	9.9 %	9.9 %	ASTM D1003
Gloss	49.3 %	49.3 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 190 °C	338 - 374 °F	

Descriptive Properties	Value	Comments
Blow Up Ratio	2:1 to 3:1	

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