

NOVA Chemicals Novapol® LC-0522-A LDPE Extrusion Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Extrusion Grade

Material Notes:

Excellent sealability, High drawdown, High adhesion, Good barrier, High stiffness, Good abrasion resistance
 Applications: Milk cartons, Paperboard containers, Liquid packaging, Woven fabrics, Lumber wrap, heavy duty bags
 Additives: Base resin
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-LC-0522-A-LDPE-Extrusion-Resin.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D792
Water Vapor Transmission	17.0 g/m ² /day	1.09 g/100 in ² /day	WVT is done at 100°F, 90% relative humidity on 30 lb Kraft paper samples with LDPE coating weight of 15 lb/ream.; ASTM E96
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 190 °C	4.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Neck In	5.10 cm	2.01 in	at 1000 ft/min; Neck-in reported is the total of both sides; NOVA Chemicals test method
Drawdown	8.10 m/s	1590 ft/min	NOVA Chemical test method
Coating Weight	>= 8.00 g/m ²	>= 5.00 lb/ream	TAPPI test method; ASTM D539

Mechanical Properties	Metric	English	Comments
Hot Tack Strength	225 g/25 mm	225 g/in	Tests done on samples with a coating weight of 12 lb/ream, prepared under the following extrusion coating conditions: Output Rate: 3 lb/hr/in, Melt Temp: 600°F, Die Width: 12 in, Substrate: 40 lb Kraft paper. Mfr reports 450 g per 50 mm (2 in).
Heat Seal Strength	1400 g/25 mm	3.09 lb/in	Tests done on samples with a coating weight of 12 lb/ream, prepared under the following extrusion coating conditions: Output Rate: 3 lb/hr/in, Melt Temp: 600°F, Die Width: 12 in, Substrate: 40 lb Kraft paper; ASTM D517

Processing Properties	Metric	English	Comments
Melt Temperature	315 - 325 °C	599 - 617 °F	Optimum adhesion is obtained at a draw span of about 10 cm. Treatment of the substrate or the use of primers will significantly enhance adhesion.

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