

NOVA Chemicals Novapol® LF-0219-A LDPE Film Resin

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

Material Notes:

Good heat sealing latitude, Moderate toughness, Easy processability
Applications: Industrial packaging, Liners, Blends with LLDPE, Foam articles
Additives: Base resin
Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-LF-0219-A-LDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	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	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D882
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Secant Modulus, MD	0.150 GPa	21.8 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.175 GPa	25.4 ksi	at 1%; ASTM D882
Impact	45	45	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	>= 0.60	>= 0.60	ASTM D1894
Elmendorf Tear Strength, MD	5.90 g/micron	150 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
Film Tensile Strength at Break, MD	18.0 MPa	2610 psi	ASTM D882
Film Tensile Strength at Break, TD	16.0 MPa	2320 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003

Optical Properties	Metric	English	Comments
LDPE	40%	40%	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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