

## NOVA Chemicals Novapol® PF-0218-F Butene LLDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Butene, Film

### Material Notes:

Toughness and strength, Ease of extrusion Applications: Cast films, Blending Additives: Process stabilizer 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-PF-0218-F-Butene-LLDPE-Film-Resin.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-PF-0218-F-Butene-LLDPE-Film-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D792
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D882
Film Elongation at Break, MD	690 %	690 %	ASTM D882
Film Elongation at Break, TD	740 %	740 %	ASTM D882
Secant Modulus, MD	0.180 GPa	26.1 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.200 GPa	29.0 ksi	at 1%; ASTM D882
Impact	60	60	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	>= 0.60	>= 0.60	ASTM D1894
Elmendorf Tear Strength, MD	3.50 g/micron	88.9 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	10.6 g/micron	269 g/mil	ASTM D1922
Dart Drop	3.00 g/micron	76.2 g/mil	F<sub>50</sub>, ASTM D1709/A
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ASTM D882
Film Tensile Strength at Break, TD	25.0 MPa	3630 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ASTM D1003
Gloss	50 %	50 %	at 45°; ASTM D2457

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	195 - 205 °C	383 - 401 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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