

NOVA Chemicals Sclair® FP120-D Octene LLDPE Film Resin

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

Material Notes:Applications: Food packaging, freezer film, lamination and sealant film
Information provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-FP120-D-Octene-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	25.0 microns	0.984 mil	
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 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	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Yield, MD	480 %	480 %	ASTM D638
Film Elongation at Yield, TD	670 %	670 %	ASTM D882
Puncture Energy	0.900 J	0.664 ft-lb	Low Friction Puncture
Elmendorf Tear Strength MD	420 g	420 g	ASTM D1922
Elmendorf Tear Strength TD	605 g	605 g	ASTM D1922
Dart Drop Test	270 g	0.595 lb	ASTM D1709/A
Film Tensile Strength at Break, MD	48.0 MPa	6960 psi	ASTM D882
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	ASTM D882
1% Secant Modulus, MD	174.95 MPa	25375 psi	ASTM D882
1% Secant Modulus, TD	194.95 MPa	28275 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D1003
Gloss	59 %	59 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 230 °C	410 - 446 °F	

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