

Technical Data Sheet

| ATTANE™ NG 4701G

Ultra Low Density Polyethylene Resin

Overview

Ultra Low Density Polyethylene Resin

High performance film applications

Description

ATTANE™ NG 4701G Ultra Low Density Polyethylene Resin is a great abuse resistance copolymer offering extremely high impact strength, combined with good tear and exceptional optics. It has the added benefit of being easy to process (low melt temperature, low extruder amps and low screen pack backpressure) which translates into quality film rolls due to its bubble stability.

Technical Specification

Antiblock: No Slip: No Processing Aid: No

Properties	Typical value	Test method
Density	0.912g/cm ³	ASTM D792
Melt index	0.8g/10min (190°C/2.16kg)	ASTM D1238
Vicat softening temperature	99°C	ASTM D1525
Peak melting temperature	121°C	DOW method
Tensile strength at yield MD	8.96 Mpa	ASTM D882
Tensile strength at yield TD	8.62 Mpa	ASTM D882
Tensile strength at break MD	41.4 Mpa	ASTM D882
Tensile strength at break TD	37.2 Mpa	ASTM D882
Elongation at break MD	400%	ASTM D882
Elongation at break TD	450%	ASTM D882

Secant modulus MD - 1% secant	141 Mpa	ASTM D882
Secant modulus TD - 1% secant	148 Mpa	ASTM D882
Dart drop impact	380g	ASTM D1709A
Elmendorf tear strength MD	250g	ASTM D1922
Elmendorf tear strength TD	600g	ASTM D1922
Puncture force	71.2N	DOW method
Puncture energy	6.21J	DOW method
Gloss (45°C)	60	ASTM D2457
Haze	10%	ASTM D1003

Extrusion Notes

Fabrication Conditions For Blown Film:

Screw Size: 3.5 in

Screw Type: DSB II

Die Gap: 70 mil (1.8 mm)

Melt Temperature: 425°F

Output: 12 lb/hr/in. of die circumference

Die Diameter: 8 in.

Blow-Up Ratio: 2.5:1

Frost Line Height: 39 in.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.