

Technical Information



AGILITY™ 2000 Performance LDPE

Low Density Polyethylene Film

Overview

AGILITY™ 2000 Performance LDPE is a low density polyethylene resin with a fractional melt index especially designed for shrink films and industrial and consumer blown films. This resin provides high stiffness and tear resistance with exceptional bubble stability, high levels of shrink, very good toughness and optical properties.

Main Characteristics:

- High output rates
- Very high stiffness combined with good toughness - for potential downgauging
- Very high tear resistance
- High puncture resistance
- Very high shrink

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.928 g/cm³	0.928 g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.35 g/10 min	0.35 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	51 µm	
Secant Modulus			ASTM D882
2% Secant, MD : 2.0 mil (51 µm)	33400 psi	230 MPa	
2% Secant, TD : 2.0 mil (51 µm)	40600 psi	280 MPa	
Tensile Strength			ASTM D882
MD : Break, 2.0 mil (51 µm)	3190 psi	22.0 MPa	
TD : Break, 2.0 mil (51 µm)	3050 psi	21.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	500 %	500 %	
TD : Break, 2.0 mil (51 µm)	650 %	650 %	
Dart Drop Impact (2.0 mil (51 µm))	140 g	140 g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD : 2.0 mil (51 µm)	280 g	280 g	
TD : 2.0 mil (51 µm)	370 g	370 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	217 °F	103 °C	ASTM D1525

Notes

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

¹ Method B



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This document is intended for use within Europe

Published: 2019-01-16

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